

TRAINING TITLE

REFINING PROCESSES AND PETROLEUM PRODUCTS

TRAINING DURATION

5 days

TRAINING VENUE AND DATES

REF RT011	Refining Processes and Petroleum Products	5 days	14-18 April 2025	\$5,500	Dubai, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

TRAINING FEES

\$5,500 per participant includes Training Materials/Handouts, Tea/Coffee breaks, Refreshments, and Lunch.

TRAINING CERTIFICATE

DEFINE Management Consultancy & Training Certificate of course completion will be issued to all attendees.

INTRODUCTION

Refining processes and petroleum products are integral to the global energy industry, encompassing complex techniques to convert crude oil into valuable products. Refineries employ a series of physical and chemical processes such as distillation, cracking, reforming, and treating to separate, purify, and transform crude oil fractions into essential products like gasoline, diesel, jet fuel, and various petrochemicals. Each refining step aims to enhance product quality, meet regulatory specifications, and optimize efficiency while managing environmental impact. Understanding these processes is crucial for ensuring the reliable supply of fuels and materials essential for modern economies worldwide.

TRAINING OBJECTIVES

Upon completion of this course, participants will understand the overall process operation of an integrated petroleum refinery and the extensive vocabulary unique to this industry.

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Participants will also have gained knowledge of crude oil properties and fuel product specifications; and the environmental pressures on the oil industry; the results of these pressures on fuel specifications; and the changes demanded of the oil industry.

WHO SHOULD ATTEND

This program is designed for those who have refinery-operating experience or who are involved in supporting operations. New refinery engineers, product sales personnel, fuel buyers, oil-traders, those involved in economic assessment of refining operations or financial analysis of sales / refining. In addition, personnel concerned with the sale of equipment, chemicals, supplies, or services to the refining industry should benefit from this course.

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Experienced operating personnel and engineering staff should find a great deal of beneficial information, particularly if they have worked in only one area of the refinery and have the need to gain an overview of refining operations.

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

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

COURSE OUTLINE

DAY 1

Introduction
The Origins of Petroleum
Crude oil Assay and its properties
Crude oil products
Effect on refinery operations
Refinery Terminology
Overview of the petroleum industry

DAY 2

Description of petroleum refining processes and related health and safety considerations
Simple and complex refineries
Refinery flow sheet signs and symbols
Crude oil processing
Desalting
Atmospheric distillation
Vacuum distillation

- Distillation - pressure, steam
- Hydro treating Hydrodesulphurization.

DAY 3

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Catalytic cracking
Platforming
Vis braking
Hydrocracking
Alkylation
Bitumen blowing Gas Treating

DAY 4

Product Slate – Now and Future:

Products and specifications

Gasoline

Kerosene/Jet Fuel

Fuel Oil/Diesel Fuels

Petrochemical Feedstocks

Alternative Fuels

Effects of Environmental concerns on oil product specifications

Gasoline & Lead phase out

Reformulated Gasoline

Blending of products

DAY 5

Tanks and Storage

Product Transfer

Utilities

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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