

Essentials of Refining

Consultant / Trainer

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The **Petrogenium**. Essentials of Oil Refining course is a basic skill course for professionals starting to work in the refining business. The course is taught on awareness level & will be invaluable to all professionals, who started their career in or recently joined the refining industry. The course can be given remotely in 6 half-days or face-to-face in 3 days.



Participants

This **Petrogenium**. courses can be tailored for awareness/inexperienced staff, for intermediate & for experienced personnel. Furthermore, courses can be customized for a specific refinery, plant or unit. The option for post-course consultancy/help-desk support is also available.

Participants may include: new oil refining personnel & professionals who work in the downstream Supply & Trading, Marketing, IT, Legal, Finance & Human Resources functions. Staff from other industries (e.g. catalyst manufacturers, equipment manufacturers, IT service suppliers, business consultants) who have business interface with the oil refining sector will also highly benefit from this course.



Learning Objectives

After completion of the course participants will have solid understanding of:

- who refinery customers are & what products they require
- To identify the main & specialty products manufactured & describe their main characteristics, composition, etc.
- Understand the flow of oil/gas from well via manufacturing plants to finished products in the market
- To explain various refinery types/configurations & be able to construct a refinery flow scheme by clearly indicating product flows to & from the process units
- The origin of crude oil, characterize the different types of crude oils, explain the concept of crude oil valuation & identify different types of crude oil pricing.
- Explain the concepts of refinery costs & margins & be able to give indications of these costs & margins

- Identify the main refinery processes (which include distillation, treating, reforming, cracking & product blending), explain the main interfaces between these process units & identify the main elements which may have an impact on the quality of the manufactured products
- determine & explain the influence of feedstock & refinery configuration on product yields, margins (Hydrocarbon & Gross Refining Margin) & product qualities by using a Refining Simulation Model

Programme

1st half day

- Introductions
 - Welcome, safety, arrangement
 - Introduction of participants
 - Programme & course objectives
- Products, Markets & Customers
- Crude and Feedstocks

2nd half day

- Refinery Configurations
 - Strategy, Costs & Margins

3rd half day

- Distillation
- Utilities & Energy Management
- Thermal Cracking & Coking
- Fuel Oil Blending

4th half day

- Fluid Catalytic Cracking & Alkylation
- Hydrocracking
- Hydrotreating

5th half day

- Reforming & Isomerisation
- Refinery Costs and Margins
- Refinery Yield & Expense Case Study

6th half day

- Benchmarking
- H2 Manufacturing & Purification
- Refinery Simulation Case Study
- Course review & close out

Why select Petrogenium.?

The above support will be provided by principal consultants with 30+ years world-class experience in the technology and hands-on know-how from operation of refinery units.

Because Experience Matters

Contact Petrogenium.:

Email: training@petrogenium.com

Website: <https://www.petrogenium.com/training/>