

Petrogenium. Academy

REFINERY PROCESS OVERVIEW

Consultant / Trainer : Anwar Tatariya

This **Petrogenium.** Overview course is designed for professionals beginning their careers in the refining industry. All professionals who have recently entered the refining industry or have just started their career will find the awareness-level course to be extremely valuable.



This **Petrogenium.** training can be tailored for awareness/inexperienced staff, for intermediate and for experienced personnel, although it has originally been designed as an advanced course. Furthermore the course can be customized for a specific refinery / plant or multiple sites. The option for post-course consultancy/help-desk support is also available. Participants may include: Refinery personnel, Trainees / GETs, Academic participants, Operations staff.

Training Objectives :

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

- the origin of crude oil, characterize the different types of crude oils, explain the concept of crude
- understand the flow of oil/gas from well via manufacturing plants to finished products in the market
- to explain the various refinery types/configurations and be able to construct a refinery flow scheme by clearly indicating product flows to and from the process units
- identify the main refinery processes (which include distillation, treating, platforming, cracking and product blending), explain the main interfaces between these process units and identify the main elements which may have an impact on the quality of the manufactured products
- to identify the main and specialty products manufactured and describe their main characteristics, composition, etc.
- integration between refinery and petrochemicals.



Programme

Day 1

- Overall hydrocarbon supply chain
- Overview of refinery configurations
- Crude oil characterization
- Distillation units:
 - Crude oil distillation & vacuum distillation

Day 2

- Conversion units:
 - Hydrotreating & hydrocracking
 - Reforming
 - Catalytic cracking & thermal cracking
 - Alkylation & isomerization

Day 3:

- Purification, auxiliary & treatment units:
 - Merox
 - Sulphur recovery & amine regeneration
 - Hydrogen production & recovery
- Refinery tank farms and logistics
- Product blending and specifications
- Refinery & petrochemical integration



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/>

Phone: + 31 23 58 30 891

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