



Refinery Economics

Consultant / Trainer:

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The **Petrogenium**. Refinery Economics course will provide insight into many aspects of operating the modern refinery as a business, including technical information on refining processes, crude oils and processing options, the place of the refinery in the value chain, refinery cost structure and management, optimization and profit margin, energy and oil loss reduction, management tools and techniques used for economic evaluations in refineries and future trends.

Participants

Participants may include: all refinery technical personnel; operations' process engineers and process managers; technical services engineers and managers; refinery planners; newly-hired refinery personnel and current semi-technical personnel who require introductory training to acquire the broader perspective; non-refinery professionals in the Oil & Gas industry or related sectors, such as consultants, contractors, suppliers and other interrelated companies interested in the oil refining business; employees of private equity firms and other investors interested in the refinery business; environmental professionals, insurance representatives, government officials, energy industry journalists & reporters and other professionals who desire a better understanding.

Learning Objectives

State the role of the main refining processes, operating characteristics, crude choice, processing options and desired products, crude and products quality parameters, refinery economics and planning; describe the place of the refinery in the value chain from 'well to wheels', including petrochemicals; methodology of optimization & product improvement; recognize the need for performance monitoring, Quality &

Assurance; apply analytical tools to refinery management; explain the challenges (including environmental), opportunities and future trends in the refining industry; understand and use the crude oil refining terminology.

This course includes presentations, short videos, exercises, interactive sessions (participants can propose relevant topics upfront to discuss in class) and an (optional) examination with certification.

Programme

Day 1

- Introduction
 - Global energy, crude oil and products demand
 - Crude oil reserves (incl. video)
 - Refinery position in the value chain
- Crude Oil and Products
 - Crude oil origin, types and movements (incl. video)
 - Crude oil products, specifications
 - Crude oil (and product) pricing (incl. video)
- The Refinery
 - Refinery segments
 - Simple, Semi-complex and Complex refineries (incl. exercise)
 - Main refinery units (incl. videos, exercise)
- The role of catalysts