

## Refineries and Petrochemical Industries

*Rome (Italy)*

*17 - 21 February 2025*

UK Training

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## Refineries and Petrochemical Industries

Code: OG28 From: 17 - 21 February 2025 City: Rome (Italy) Fees: 4700 Pound

### Introduction

Refineries and petrochemical industries play a crucial role in the processing and transformation of crude oil and other hydrocarbon resources into valuable products such as fuels, chemicals, plastics, and various materials. These industries contribute significantly to the global energy supply, manufacturing sector, and economic development. In this outline, we will cover the objectives and a five-day plan to explore refineries and petrochemical industries.

### Course Objectives

- Understand the fundamentals of refineries and petrochemical industries, including their significance in the energy and manufacturing sectors.
- Learn about the various processes involved in refining crude oil and transforming it into different petroleum products.
- Explore the key technologies and equipment used in refineries and petrochemical plants.
- Gain insights into the major challenges and environmental considerations associated with these industries.
- Discover the future trends and innovations shaping the refineries and petrochemical industries.

### Course Outline

#### Day 1

##### Introduction to Refineries and Petrochemical Industries

- Overview of refineries and petrochemical industries
- Importance and role in the energy and manufacturing sectors
- Major products produced and their applications

#### Day 2

##### Crude Oil Refining Processes

- Overview of crude oil composition and properties
- Distillation and separation processes
- Conversion processes: cracking, reforming, and alkylation
- Treatment processes: desulfurization, hydrogenation, and hydrodesulfurization

#### Day 3

##### Petrochemical Industry and Processes

- Introduction to petrochemicals and their applications
- Steam cracking and olefin production

- Aromatics production: benzene, toluene, and xylene
- Polymerization processes for plastics production

#### Day 4

##### Technologies and Equipment in Refineries and Petrochemical Plants

- Key equipment and units in refineries: distillation towers, reactors, and separators
- Catalysts and their Role in various processes
- Overview of petrochemical plant layout and equipment: furnaces, compressors, and distillation columns

#### Day 5

##### Challenges, Environmental Considerations, and Future Trends

- Environmental Impacts and sustainability challenges in Refineries and petrochemical industries
- Efforts to minimize environmental footprint: emission control and waste management
- Emerging trends and technologies: renewable feedstocks, circular economy, and digitalization
- The future outlook for refineries and petrochemical industries



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