

Course Overview:

Petrochemicals are made or recovered from the entire range of petroleum fractions, but the bulk of petrochemical products are formed from the hydrocarbon gases as raw materials.

Course Objective:

This course will guide participants to develop key concepts and techniques for the refining and petrochemical processes. These key concepts can be utilized to make operating decisions that can improve your unit's performance.

Course Outline:

- Introduction
- Overview Of The Chemical Processing Industry
- Review Of Process Incidents
- Safety For The Chemical Processing Industry
- Fundamentals Of Petroleum Chemistry
- Description Of A Hydrocarbon Molecule
- Types Of Hydrocarbon Molecules
- Definition And Function Of A Catalyst
- Introduction To Petrochemical Key Concepts
- Unit Operations
- Process Flow Diagrams
- Mass Balance
- Introduction To Refinery And Petrochemical Equipment
- Distillation
- Absorption
- Heat Exchange
- Reactors
- Pumps
- Compressors
- Furnaces

Who Should Attend:

The course is designed for plant managers, plant supervisors and operation staff. Engineers in areas of process engineering, engineers and operations personnel who wish to gain overview and insight into chemical processes and operations.

Training Language:

EN / AR

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation