

The steam cracking process - Petrochemicals / Oil and gas

This course is designed to give you an insight into the chemical processes, plant operations and economics of a steam cracker plant. The training course examines the intricacies of a petrochemical steam cracker plant and breaks them down into core building blocks whose concepts will be explained in a clear easy to understand language.

You will learn:

- Overview of the petrochemical industry 2/3 : Making polymers (PE, PP, PS, PVC)
- Overview of the petrochemical industry 3/3 : Other petrochemicals (Benzen, Xylene, Toluene, Styrene, Cumene, Phenol...)
- Crude oil refining
- Logistics of crude oil, petroleum products and chemicals : Transport and despatch
- Storage of petroleum, chemicals and LPG
- Oil and Gas : History, markets, pricing, economics and petroleum products
- Distillation, absorption and stripping : Engineering basics and equipment
- Heat transfer technologies : Process furnaces and heat exchangers
- Rotating equipment basics 1/4 : Centrifugal pumps
- Rotating equipment basics 1/4 : Positive displacement pumps
- Rotating equipment basics 1/4 : Centrifugal compressors
- Rotating equipment basics 1/4 : Reciprocating compressors
- Valves and piping in the Oil and Gas
- Fundamentals of process control used in industrial plants
- Process instruments used in industrial plants
- General inorganic chemistry
- Organic chemistry
- Essential physics

- IR and NMR spectroscopies

This course for:

- Chemical Engineers
- Operators
- Petroleum Engineers

Course Duration

5 Days