

Understanding the Importance of Petrochemical Process



COURSE CONTENT

Petrochemicals are chemical products derived from petroleum. Some chemical compounds made from petroleum are also obtained from other fossil fuels, such as coal or natural gas, or renewable sources such as corn or sugar cane. The two most common petrochemical classes are olefins (including ethylene and propylene) and aromatics (including benzene, toluene and xylene isomers). Oil refineries produce olefins and aromatics by fluid catalytic cracking of petroleum fractions. Chemical plants produce olefins by steam cracking of natural gas liquids like ethane and propane. Aromatics are produced by catalytic reforming of naphtha. Olefins and aromatics are the building-blocks for a wide range of materials such as solvents, detergents, and adhesives. Olefins are the basis for polymers and oligomers used in plastics, resins, fibers, elastomers, lubricants, and gels

LOCATION

Kuala Lumpur, Malaysia

DURATION

1 Day

ABOUT THIS COURSE

The petrochemical industry is classified into 3 main groups, on the basis of their products

- Upstream Petrochemical Industry
- Intermediate Petrochemical Industry
- Downstream Petrochemical Industry

OBJECTIVE

- Production process of petrochemical industry is considered one of the most energy intensive operations.
- Due to increase energy consumption trend of this industry and to correctly accommodate the future economic expansion, it is important to understand this industry to efficient energy management initiatives in order to optimize the whole process while maximize the benefit.
- You will learn the basic processes in the petrochemical industry (cracking, isomerisation and reforming) as examples of important catalytic reactions

Target group

- Management staff. Engineering (design, process, facilities, instrumentation and control).
- Operations Engineers and process safety personnel.
- Health Safety and Environment HSE staff.
- Plant operators and maintenance personnel.
- Those currently in related industries and who want to upgrade their skills and improve their employability.

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