

**Consultant/Trainer:** Anand Sundarrajan.

The Petrogenium Ethylene Cracking Technology course is designed to provide comprehensive knowledge of distillation technology for engineers and technologists from hydrocarbon process industries. This unique 4-day course is tailored to cover fundamental aspects of distillation design, operation and troubleshooting.

### Participants

This course is intended for wide range of professionals from hydrocarbon process industries with entry level to mid-level industrial experience.

### Learning objectives

After completion of this course the participant will acquire in-depth knowledge of Ethylene Cracking Technology beginning with position of Cracker in the value chain, Cracking furnace Technology, Coking/decoking, Quench system, cracked gas compression, recovery train, Cold Box, C2/ C3 hydrogenation, safety events, contaminants hydrates & economics of production. The Participants will be able to apply their learnings to – operate/trouble shoot their ethylene plant, understand key variables when formulating a design basis for an ethylene cracker project.

### Programme

Day 1:

- 1 Cracker in Hydrocarbon Chain
- 2 Pyrolysis Chemistry
- 3 Cracker Furnaces Part 1
- 4 Cracker Furnaces Part 2
- 5 New Technology & State of the Art
- 6 Recovery Train General

Day 2:

- 7 Recovery Train Pyfrac
- 8 Recovery Train Compression

- 9 Recovery Train Contaminants removal
- 10 Recovery Train Dirers
- 11 Recovery Train Cold Box
- 12 Recovery Train H2 processing
- 13 Recovery Train Refrigeration

Day 3:

- 14 Recovery train fractionation
- Recovery Train
- 15 Hydrogenation
- 16 Recovery Train Fouling
- 17 Safety Events
- 18 Direct Quench

Day 4 :

- 19 Contaminants & Hydrates
- 20 Auxiliary Systems
- 21 Coke - Decoking
- 22 Speciality Items - Cold Box
- 23 Economics of Production

Contact

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