Petrogenium. Academy

Process Technology

Ethane Cracking Course

Consultant / Trainer

Anand Sundarrajan

The **Petrogenium. Ethylene Technology course** is designed to provide comprehensive knowledge of Ethane Cracking technology for engineers and technologists from hydrocarbon process industries. This unique 4-day course is tailored to cover fundamental aspects of Ethane Cracking Kinetics, furnace geometry, yield optimization , quench water system and recovery distillation train design, operation and troubleshooting**.**

Participants

This **Petrogenium.** course is intended for wide range of professionals from hydrocarbon process industries with entry level to mid-level industrial experience. The course would be highly recommended for professionals who are currently working in an operating ethylene plant.

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, Ethane 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

Introduction to Ethylene Cracking

- Cracker in Hydrocarbon Change
- Pyrolysis Chemistry
- Ethane Cracker Furnaces Part 1
- Ethane Cracker Furnaces Part 2
- New Technology & State of the Art
- Recovery Train General

DAY 2

Recovery Train Part 1

- Recovery Train –Quench water Frac
- Cracked Gas Compression
- Contaminants Removal
- C2/C3 Driers
- Cold Box
- Hydrogen processing
- Refrigeration

DAY 3

Recovery Train Part 2

- Fractionation
- C2/C3 Hydrogenation
- Fouling
- Safety Events
- Direct Quench

DAY4

Auxiliary- decoke/hydrates

- Contaminants & Hydrates
- Auxiliary systems
- Coking/Decoking
- Speciality items –Cold Box

DAY 5 (Optional for Virtual Courses)
Marine Transportation of Ethane: From Supply Nodes to Demand Centers - An Overview

- Major Supply Nodes
- Major demand centers
- Ethane Carriers - Fleet size
- Typical routes
- Freight Economics
- Outlook - 2025-2030

Why select Petrogenium.?

The above support will be provided by principal consultants with 30+ years world-class experience in the technology and hands-on know-how from operation of refinery units.

Contact Petrogenium.:

Email: training@petrogenium.com
Website:https://www.petrogenium.com/training/

Because Experience Matters