Process Technology

Distillation Technology - Asia

Consultant / Trainer:

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The **Petrogenium.** Distillation course is designed to provide comprehensive knowledge of distillation technology for engineers and technologists from hydrocarbon process industries. This unique 3-day course is tailored to cover fundamental aspects of distillation 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.

Learning Objectives

After completion of this course the participant will acquire in-depth knowledge of different aspects distillation technology for efficient design, operation and

Programme

Day 1

- · General Principles
 - · Overview of Separation Processes
 - · Phase Equilibrium
 - Physical Property Methods
 - Overview of Hybrid Distillation Configurations
- Process Design
 - · Distillation Curves & Pseudo Components
 - Cut Point & Sharpness of Separation
 - · Two Cut & Three Cut Splitters
 - Multi-Cut Columns
 - Circulating Reflux
 - · Side Strippers
- Exercise 1

Day 2

- · Main Fractionators
 - · Crude and Vacuum Distillation Unit
 - · Fractionators of Work-up Sections
 - · Energy Improvement Opportunities
- Column Internals
 - · Key Features & Purposes
 - Common Types of Trays & Packings
 - Operating windows for Trays & Packings
 - Fundamental of Column Calculations
- Exercise 2

Day 3

- · Column Process Control
 - · Controlled & Manipulated Variables
 - P&T, Mass Balance & Quality Control
 - · Column Control Schemes
- Operational Aspects
 - · Shut-down, Inspection & Start-up
 - Troubleshooting
- Exercise 3