KNOWLEDGE
For Training

1. Course Details:

Course Code : ICPE-009
Course Title : Distillation Design and Operation
Course Duration : 5 Days

2. Course Overview:

- Various types of Distillation Column Types and Internals Critical Design Aspects and analysis troubleshooting of distillation processes Learn about the instrumentation and control commonly deployed with the equipment Develop the understanding of distillation problems including thermodynamics and VLE, process design and hardware consideration.

3. Learning Outcomes:

- Understand basic Unit Processes & Unit Operations Learn about Distillation Principles to utilize distillation theory
- Apply it directly to real and practical problems

4. Course Contents:

- Introduction to process and equipment engineering
- Unit Processes & Unit Operations
- Various types of distillation operations
- Rectification, significance and role of reflux
- Reflux, minimum, optimum
- Reboiler and Condenser heat loads
- Stage Concepts, No. of theoretical and actual stages
- Overall tray efficiency
- Multicomponent systems
- Extractive distillation
- Flow patterns, pressure drop, plate stability
- Packed Columns, packings – random, regular, structured, packing
- Supports, liquid distributors, other accessories
- Column [Tower] sizing, general outline
- Column Operation: Significant operating parameters
- Poor efficiency of contact [weeping, flooding], remedial measures
- Operating objectives and control strategies
- Distillation Column Control Configurations

5. Our Methodology:

- Make coaching and monitoring innovative and using modern
- Media training also using on the go training by using interactive means and focusing on
- The exercises, practical applications and real situations study.
- Live delivery method, instructor-led training.
- Experienced consultant, trainers, and professional.
- Qualified trainer with high-level experience

6. Attendance Reports:

- Send daily attendance reports to trainingdep
- Send full attendance report to training dep. by the end of thecourse
- Attend 100 % from the course days also providedaily
- Issue attendance certificate for participant who attend minimum 80% from the course duration

7. Pre/Post Reports:

- Pre- assessment before starting training.
- Post assessment after finish training
- Full report for the deferent between Pre-& Post assessment

8. Who Should Attend?

- All engineers in Process industries like Refineries, Petrochemical Plants and other manufacturing industries
- It will be highly valuable to all engineers involved in the operation and design of Distillation facilities
- Those who are experienced in other fields and seek a review of the fundamentals of Distillation will also find this course most beneficial