Training Title:

ELEMENTS OF APPLIED PROCESS ENGINEERING

Training Duration

5 days

Training Date and Venue

REF PE070	Elements of Applied Process Engineering	5	15 – 19 March, 2021	$6,250	Rome, Italy

In any of the 5 star hotel. Exact venue will be informed later.

Training Fees

- **6,250 US$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch**

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

Language: English

TRAINING DESCRIPTION:

The aim of this course is to provide participants with a complete and up-to-date overview of the Basic Elements of Applied Process Engineering. Upon the successful completion of this course, participants will gain a satisfactory understanding of the Concepts of Unit Operations, and Elements of Applied Process Engineering. Actual case studies from around the world will be demonstrated to highlight the topics discussed.

TRAINING OBJECTIVES:

Upon completing this course, attendees will have a good understanding of Oil Refinery industries. There are many methods that may be employed to fractionate and treat crude oil and distillation products.

Improve knowledge on the areas of Practical Engineering

- **Understand the aspects of Process equipments in relation to Refinery, Gas Plant and Chemical Industries**
- **Know the different Equipment Design Considerations Construction Materials & Codes Vessel Design.**
- **Recognize the different in Chemical & Physical Principles**

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- **To point the way to Continuous Improvement in the way you run your processes and make incremental efficiency gains**
- **Who Should Attend**
- **Participants should have a previous knowledge of Chemical or petroleum industries or new employees of chemical or oil industries, fresh university graduate from engineering collage or process Technicians will find the course interesting.**

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Very useful Course Materials will be given.

- **30% Lectures**
- **30% Workshops and work presentation**
- **20% Group Work& Practical Exercises**
- **20% Videos& General Discussions**

COURSE OUTLINES:

Process Engineering
2 -Chemical & Physical Principles
3 -Process Development
4 -Fluid Mechanics
5 -Heat Transfer & Its Application
6 -Mass Transfer
7 -Chemical Kinetics Reactors Fluid Reactions
8 -Agitation & Mixing

9 -Particulate Solids Size Reduction, Classification, Conveying, Crystallization, Filters, Granulation
10 -Process Control & Instrumentation
11 -Equipment Design Considerations Construction Materials & Codes Vessel Design
12 -Process Risk Analysis
Relevant Case Studies

Note:

Pre & Post Tests will be conducted

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Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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