Engineering Aspects of Unit Operation & Performance

TG124

Course Overview:

in this course we will present the Engineering Aspects of Unit Operation& Performance in an easily understandable technical way, with basic engineering calculations and all information necessary for technical operation and performance of equipment such as distillation & fractionation units, absorbers, furnaces, burners, reactors, extraction unit, steam generation unit, pumps & compressors.

Course Objective:

This course is to present Engineering Aspects of Unit Operation& Performance in an easily understandable way, basic engineering calculations & information necessary for optimum operation & performance of equipment such as distillation & fractionation units, absorbers, furnaces, burners, reactors, extraction unit, steam generation unit, pumps & compressors, mixers & separators, & storage facilities. In addition, ecological & economical aspects of various processes & units as well as process control & instrumentation will be discussed in various industries.

Course Outline:

-Energy & material balances
-Feed stocks & products
-Burners, furnaces & fuels
-Heating & cooling units
-Steam germination unit
-Reactors
-Distillation & fractionation units
-Absorber & stripping units
-Pumps, compressors & piping system
-Mixing of gas-liquid, liquid-liquid & solid-liquid systems
-Storage systems
-Process control & instrumentation

Who Should Attend:

Technicans, engineers, scientists, operators from various industries & companies such as petroleum production & processing, refineries, chemical & petrochemical, water, food & pharmacological industries

Training Language:

English

Training Methodology:

-Presentation & Slides
-Audio Visual Aids
-Interactive Discussion
-Participatory Exercise
-Action Learning
-Class Activities
-Case Studies
-Workshops
-Simulation