



THE CHEMICAL ENGINEERING MAJOR

Distillation Process, Control, Troubleshooting and Operation Developments

Website: www.btsconsultant.com

Email: info@btsconsultant.com

Telephone: 00971-2-6452630

Distillation Process, Control, Troubleshooting and Operation Developments

Who Should Attend?

Engineers and operators for design, operation and maintaining of processes and instrumentation

Methodology:

This interactive Training will be highly interactive, with opportunities to advance your opinions and ideas and will include;

- Lectures
- Workshop & Work Presentation
- Case Studies and Practical Exercise
- Videos and General Discussions

Certificate:

BTS attendance certificate will be issued to all attendees completing minimum of 80% of the total course duration.

Objectives:

To understand the Distillation Processes and Distillation Control for several cases

Contents:

Distillation process

- Crude stabilization and sweetening.
- Condensate stripping.
- Crude distillation for atmospheric and vacuum units.
- NGL fractionation.
- Sour Gas Treating.
- Plant Conditions/Data

Distillation control:

- Control Variables and Objectives
- Pressure Control.
- Material and Energy Balance Control.
- Single-Product Quality Control.
- Dual-Product Quality Control.
- Product Quality Measurement.
- Control Techniques and Strategies.
- Constraints.

Troubleshooting:

- Difficulties and Their Causes.
- Flooding, Loss of Separation Efficiency, Equipment Damage and Changes In Tower Operation And Control Problems.
- Identifying Causes, Collect Information, Generate Additional
- Information, Evaluate The Information, Symptoms Versus Causes,
- Troubleshooting Tools, Gamma Ray Absorption and Neutron Backscatter.
- Tower Modifications, Specific Problems, Most Common Problems,
- Natural Gas Liquids (Ngl) Or Light Ends Fractionation, Vacuum
- Crude Units, Atmospheric Crude Units, Diglycol Amine (Dga) Gas
- Treating and Sour Water Strippers.
- Packed Columns, Liquid Distributors, Flooding and Restrictive Support Plate.

Operating Improvements:

- Objectives, Meeting Specifications, Improving Yields, Increase Throughput and Reduce Utility Consumption.
- Improvements, Improve Fractionation Quality, Reduce Product Quality Giveaway, Improve Instrumentation, Analyzers, Develop Computer Applications and Utilize Operating Variable Objective Relationships.