

Upcoming Dates

Calgary - March 24-25
Calgary - June 9-10

Price

\$1,450 + GST

Process Simulation and Engineering For Natural Gas Conditioning and Processing



Process simulation for natural gas conditioning and processing has become an essential tool for oil & gas operators and engineering firms. Simulators can better support process design, debottlenecking and optimization when used to their full potential.

This learning opportunity will provide process engineers with an ideal setting to familiarize themselves with the most widely used simulators in the industry (Unisim Design™ and Aspen HYSYS™). A number of computer modeling strategies will be reviewed as well as integration of the software to process engineering workflows in the Natural Gas Processing sector.

Course Philosophy

“Applied process engineering using process simulation models”.

This course goes beyond the use of software to the application of engineering knowledge to address process requirements.

Course Description

Focus is on the practical application of simulation tools for natural gas processes.

Incorporates use of other software tools and calculations to supplement what process simulators can provide.

Course Outline

Part I: Simulation Elements

- 1.Characterization of Gas and Condensates
- 2.Gas/Liquid Separation
- 3.Compression
- 4.Heat Exchanger Simulation / Rating
- 5.Column Design/Rating
- 6.Other Equipment
 - Pumps
 - Air Coolers
 - Piping

Part II: Gas Transmission / Processing

- 1.Dewpoint Control
 - Refrigeration and JT Plants
 - Propane Refrigeration
 - TurboExpander (Deep Cut)
- 2.Dehydration and Glycol Regeneration

3. Fractionation
4. Other Considerations:
 - Gas Sweetening
 - Flare Systems
 - Utilities (Hot oil, Steam, etc.)
 - Economics –Case Studies/KPI
 - Emissions / Environmental

Who should attend

Process engineers, engineering managers and operations engineers who have responsibilities for process design, optimization and operations. Ideal for any organization that faces the challenges of increased cost and regulatory pressures in hydrocarbon processing.

Register

Register online:

www.processecology.com/training/ng.htm

Or call us at:
(403) 313 8931