PetroSkills

Introduction to Production and Gas Processing Facilities

MODULE

About the Skill Module

This module provides an overview of production and gas processing facilities. The concepts addressed in this module include:

- The crude oil and natural gas value chains
- Common contaminants in production streams
- Crude oil, produced water and natural gas quality specifications
- Typical production facility and gas processing schemes
- NGL products and the economics of their recovery

Knowledge of these basic concepts is critical to understanding the selection and specification of processing facilities between the wellhead and product markets.

Target Audience

Production and processing personnel involved with natural gas and associated liquids, to acquaint or reacquaint themselves with gas conditioning and processing unit operations. This course is for facilities engineers, process engineers, senior operations personnel, field supervisors, and engineers who select, design, install, evaluate, or operate gas processing plants and related facilities. A broad approach is taken with the topics.

You Will Learn

Participants will learn how to:

- State typical crude oil and produced water specifications
- Describe process flows for each stream in production facilities
- List problems associated with and strategies to deal with solids production, e.g. sand, wax, asphaltenes
- List the components, including contaminants, found in produced gas streams
- State typical natural gas sales or transportation specifications
- Calculate higher heating value and Wobbe number
- List the products of a typical natural gas processing plant, their associated markets, and describe common terminology
- Describe typical process flows for each stream in gas processing facilities
- Explain the difference between gas conditioning to meet a HCDP specification and gas processing to recover NGLs

- Describe shrinkage and how it is calculated

Product Details

Categories: Midstream

Disciplines: Gas Processing   Process Facilities

Levels: Basic

Product Type: Individual Skill Module

Format: On-Demand

Duration: 4 hours (approx.)

$395.00