N612: Introduction to Natural Gas Gathering and Processing

Instructor(s): Dale Kraus

2 Days	Competence Level: Awareness
Classroom Course	

Summary

This course is designed to familiarize participants with the basic aspects of behavior and characteristics of natural gas, and the common processes and equipment used in gas gathering and processing.

Learning Outcomes

Participants will learn to:

1. Recognize the types and characteristics of natural gas.
2. Describe how gas separators work.
3. Describe the components of gas pipelines.
4. List the types of gas compression.
5. Explain the role of sweetening in gas processing.
6. Explain the process of gas dehydration.
7. Explain the role of hydrocarbon liquids recovery systems.
8. List the utilities needed to run a gas processing system.

Duration and Training Method

This is a two-day course comprising lectures with real-world examples. It provides participants with 1.6 CEUs (Continuing Education Credits) or 16 PDHs (Professional Development Hours).

Who Should Attend

This course is designed for technical, operations and maintenance personnel involved in gas gathering and processing who have had limited exposure in this area, or for staff in other areas who require a comprehensive overview of gas gathering and processing. It is not intended for Facility Engineers with more than two years of experience.

Prerequisites and Linking Courses

There are no prerequisites for this course.

Related courses on oil and gas field surface facilities include, N613 (Natural Gas Processing - Dehydration, Refrigeration, and Fractionation) and N631 - Introduction to Centrifugal, Reciprocating and Rotary Pumps - Design, Application and Operation

Course Content

Day One

1. Characteristics of Natural Gas
2. Vapour / Liquid Separation
3. Well Lease Equipment
4. Pipelines
5. Field Facilities
6. Satellites

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Day Two

1. Gas Compession / Sweetening / Dehydration
2. Pumps
3. Dew Point Control / Liquids Recovery / Fractionation / Stabilization
4. Sulphur Recovery / Acid Gas Injection
5. Utilities
6. Sales Considerations