
N611: Introduction to Crude Oil Gathering and Processing

Instructor(s): Dale Kraus

Format and Duration

Classroom - 2 Days

Virtual - 2 Sessions

Summary

This course is designed to familiarize participants with the basic aspects of crude oil production and the common processes and equipment used in gathering and processing. It is ideally suited to technical, operations and maintenance personnel involved in oil gathering and processing who have had limited exposure in this area, or for professionals involved in other areas of the petroleum industry who require a comprehensive overview of oil gathering and processing.

Learning Outcomes

Participants will learn to:

1. Recognize the characteristics of crude oil that impact flow and processing.
2. Identify the lease elements required for oil production.
3. Describe the various types of separators.
4. Describe the components of a pipeline.
5. List typical elements of an oil battery.
6. Identify options for produced water disposal.
7. Discuss tankage requirements on a facility.

Training Method

This is a classroom or virtual classroom course comprising lectures illustrated with real-world examples.

Who Should Attend

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

Course Content

Part One

1. Introduction
2. Characteristics of Oil, Water and Gas Production
3. Vapor/Liquid Separation
4. Sales Product Specifications
5. Fluid Flow – Pipelines
6. Satellites

Part Two

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1. Oil Well Production Facility: Battery
2. Inlet Separation and Free Water Knockout
3. Oil Treating
4. Storage Considerations
5. Water Handling and Distribution
6. Compression
7. Stabilization
8. Tankage
9. Vapor Recovery
10. Utility Systems