



Oil Treating and Desalting Fundamentals

MODULE

About the Skill Module

This skill module reviews the various types of oil treating equipment available and their applications, and the key issues associated with the oil treater systems. It also covers main desalting process configurations, i.e., process flow diagrams, major equipment, etc. This skill module covers the following topics:

- Oil Treating Overview
- Oil Treating Methods – Application of Heat
- Oil Treating Methods – Chemical Demulsifiers
- Oil Treating Methods – Retention Time
- Oil Treating Methods – Electricity
- Oil Treating Methods – Mechanical Devices
- Desalting Crude Oil Overview
- Desalting Crude Oil Process Configurations



[See example online learning module](#)

Target Audience

Process/facilities engineers and senior operating personnel involved with the design and operation of oil and produced water processing facilities.

You Will Learn

- Describe what is oil treating and why it is important
- List typical sales oil specifications
- Outline typical emulsion heating methods and their applications
- Describe design parameters; treating temperature, treating flux, heat flux, and heat release density

- Perform basic sizing of a heater treater
- Describe chemical demulsifiers, what are they and how they destabilize and eliminate emulsions
- List the key factors and criteria considered for selection of chemical demulsifiers
- Estimate demulsifiers injection rate and cost
- Explain how electrostatic treaters work and what their advantages are over other treating methods
- List different types and typical configurations
- Perform basic sizing of an electrostatic treater
- Identify the two gravitational treating units

Product Details

Categories: Midstream

Disciplines: Process Facilities

Levels: Foundation

Product Type: Individual Skill Module

Format: On-Demand

Duration: 5.5 hours (approx.)

\$795.00