



Oil, Gas and Chemical

Production Operations and Surface Facilities

Course Introduction

Production Operations and Surface Facilities

This course presents a basic overview of all typical oilfield treating and processing equipment. Participants should learn not only the purpose of each piece of equipment but how each works. Emphasis is on gaining a basic understanding of the purpose and internal workings of all types of surface facilities and treating equipment.

A major goal of this course is to improve communication among all disciplines, the field, and the office. Better communication should enhance operational efficiencies, lower costs and improve production economics. Daily sessions include formal presentation interspersed with a good number of questions, discussion and problem solving.

Target Audience

- Production Engineers
- Facility Engineers
- Operations Supervisors
- Maintenance Personnel
- Field Technicians
- Project Managers
- Health, Safety, and Environment (HSE) Officers
- Process Engineers
- Reservoir Engineers
- Asset Managers

Learning Objectives

- Properties of fluids at surface, Foams, emulsions, paraffins, asphaltenes, hydrates, and salts.
- Importance of oil processing
- Separation and treatment Separators
- Slug catcher
- Heaters
- De-sanders
- De-salters
- Tanks
- Pumps

Course Outline

- **01 Day One**

Introduction - PROPERTIES OF FLUIDS AT SURFACE, FOAMS, EMULSIONS, PARAFFINS, ASPHALTENES, HYDRATES, SALTS

- Produced oil properties
- Produced oil impurities.
- Draw-back of produced impurities.
- Importance of oil processing.

- **02 Day Two**

SEPARATION AND TREATMENT

- Introduction to separation and treatments
- Types of separators.
- Two phase and three phase separators.
- Horizontal, vertical and spherical separators.
- Factors affecting separations efficiency.

• 03 Day Three

SLUG CATCHERS, HEATERS AND DESALTERS

- Slug catcher importance
- Slug catcher working theory

• 04 Day Four

Types of heater (Direct & indirect heaters)

- De-salters

DE-SANDERS, TANKS AND PUMPS

- Types of de-sanders.

• 05 Day Five

Types of tanks.

- Shipping pumps.

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 11, 2025	May 15, 2025	5 days	4250.00 \$	KSA - Riyadh
Sept. 15, 2025	Sept. 19, 2025	5 days	4250.00 \$	UAE - Abu Dhabi
Nov. 3, 2025	Nov. 7, 2025	5 days	5950.00 \$	USA - Los Angeles
Feb. 24, 2025	Feb. 28, 2025	5 days	4250.00 \$	UAE - Dubai