

TRAINING TITLE

PRODUCTION CHEMISTRY

Training Duration

5 day

Training Venue and Dates

Ref. NO. PE166	Production Chemistry	5	08-12 Sep. 2025	\$5,500	ABU DHABI, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- **\$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch**

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This program has been developed to provide an in-depth, yet practical review of the art and science of Production Chemistry & Chemical Treatment in the Oil & Gas Fields.

Starting with Crude oil processing facilities from the wellhead to the delivery of a specification crude oil product to the refinery as well as solution gas handling processes and equipment will be discussed.

Chemicals used for controlling corrosion, emulsions, foaming, mineral scales, paraffins (waxes), asphaltenes, gas hydrates, hydrogen sulfide scavengers and water clarifiers are covered. The course also includes methods to determine the need for chemical treating and how to select the proper chemicals. The course will include how the use of chemicals can prevent problems, improve production and economics, and extend the life of the production equipment. The program's content is both comprehensive and wide-ranging. Latest, effective logistics management and warehouse system in the manufacturing industry.

TRAINING OBJECTIVES

Upon the successful completion of this course, participants will be able to:-

- Select and evaluate processes and equipment used to condition well fluids, to meet sales or disposal specifications.
- Evaluate processing configurations for different applications.
- Recognize and develop solution to operating problems in oil and gas production facilities.
- Recognize corrosive conditions and monitor corrosion rates

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- Select and apply corrosion inhibitors
- Predict and treat emulsions
- Understand causes and control of foaming
- Predict scale forming conditions
- Select and apply scale inhibitors
- Control gas hydrate formation
- Predict and control paraffin (wax) deposition
- Evaluate methods for asphaltene control
- Scavenge low concentrations of H₂S
- Select and apply water clarifiers
- Select environmentally friendly chemicals

WHO SHOULD ATTEND?

New recruits, engineers who are following Reservoir Engineering Development framework

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE PROGRAM:

www.definettraining.com

DAY 1

Introduction to Oil & Gas Industry

Crude Oil Origin and Characterization

Crude Oil Chemistry & Contaminants

Overview of oil and gas processing facilities

Sand, wax & asphaltenes

Oil treating

Field desalting

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DAY 2

Crude stabilization & sweetening
Gas processing facilities
Corrosive agents
Corrosion inhibitor selection and application
Predicating and monitoring corrosion rates
Basics of oil field emulsions
Demulsifier selection and field application

DAY 3

Foam basics
Defoamers
Field application of foams
How defoamers work
Compounds that cause scaling
Predication of scaling tendency
Scale inhibitors

DAY 4

Solvents to dissolve scales
Requirements for gas hydrates to form
Types of compounds used to control hydrate formation
Causes of paraffin (wax) problems
Paraffin treatment chemicals
Asphaltene stability tests
Asphaltene treatment chemicals

DAY 5

- Chemicals used as H₂S scavengers
- Application of scavengers
- Oil carryover in water
- Removal of oil and oily solids
- Green chemicals (Environmentally friendly chemicals)
- International guidelines

NOTE:

Pre-& Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.

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