Training Title:

PRODUCTION CHEMISTRY & CHEMICAL TREATMENT IN THE OIL & GAS FIELDS

Training Duration
5 days

Training Venue and Dates

| Production Chemistry & Chemical Treatment in the Oil & Gas Fields | 5 | 05-09 February | $3,300 | Dubai |

In any of the 5 star hotel. Exact venue will be informed later.

Training Fees
• 3300$ per participant includes Training Materials/Handouts, Tea/Coffee breaks, Refreshments and International Buffet Lunch.

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

Introduction & 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.

Course Objectives

By the end of the 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 solutions to operating problems in oil and gas production facilities.
- Recognize corrosive conditions and monitor corrosion rates
- 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 asphaltenes control
- Scavenge low concentrations of H2S
- Select and apply water clarifiers
- Select environmentally friendly chemicals

Who should attend?
Production engineers, facilities engineers, chemists and technicians involved with production systems from the well-bore through the topside production equipment, transmission pipelines and storage facilities, who are responsible for recognizing and treating problems which might require treatment chemicals.

Training Methodology
A highly interactive combination of lecture and discussion sessions will be managed to maximize the amount and quality of information, knowledge and experience transfer. The sessions will start by raising the most relevant questions, and motivate everybody finding the right answers. The attendants will also be encouraged to raise more of their own questions and to share developing the right answers using their own analysis and experience.

Course Outline:

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