Training - Chemicals used in Production Activities

CHIMIC-EN-P | **Face-to-face only** | **5 days**

This comprehensive course provides an advanced knowledge on how production chemicals may improve production processes and cure problems in Oil & Gas production. Chemical natures, properties, selection, treatments monitoring, troubleshooting, optimizations are covered

Level

Knowledge

Public

Production Engineers looking for comprehensive technical information on production chemicals use, monitoring, optimization

Objectives

Attendees will be able to implement the following skills:

- Detail the nature and purpose of each frequently used production chemicals, their specificities and limits
- Explain in which domain and how chemical treatments are applicable
- Select and apply safely the best treating chemicals
- Monitor chemical treatments and detect dysfunctions
- Evaluate chemical performance in a given process, optimize chemical treatments

Pedagogical & technical resources

- Highly interactive training by industry specialist lecturers
- Several applications and case studies

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

INTRODUCTION TO CHEMICAL TREATMENT IN PRODUCTION FIELD — 0.5 day

Review of different types of chemicals used in Oil & Gas production.
Brief description of the associated logistics and chemical-specific hazards.
Methods for implementing chemical treatment.

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CHEMICALS FOR OIL TREATMENT — 1.5 days

Purpose, nature and specificities of each: demulsifiers, defoamers, corrosion inhibitors, paraffin control chemicals, drag reducers...
Methodology for selecting the correct chemical and field testing.
Ways for monitoring during operation.
Optimization of the chemical injection and chemical performance evaluation.
Scale removal and prevention in well tubing.
Troubleshooting case study.

CHEMICALS FOR GAS TREATMENT — 1 day

Purpose, nature and specificities of each: defoamers, foamers, corrosion inhibitors, hydrate inhibitors (Methanol, DEG, TEG, KHI)...
Methodology for selecting the correct chemical and field testing.
Ways for monitoring during operation.
Optimization of the chemical injection and chemical performance evaluation.
Use of H2S scavenger.
Troubleshooting case study.

CHEMICALS FOR INJECTION & PRODUCED WATER PROCESSING — 1 day

Purpose, nature and specificities of each: polyelectrolyte, chlorine, bactericide, oxygen scavenger, deoilers, corrosion inhibitors, acids, mineral scale inhibitors...
Methodology for selecting the correct chemical and field testing.
Ways for monitoring during operation.
Optimization of the chemical injection and chemical performance evaluation.
Troubleshooting case study.

MINI PROJECT — 1 day

Chemical treatments deployment applications.

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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