

Oilfield Production Chemistry and Chemical Treatment Training Course

3 – 7 October 2027
Geneva

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Ref: 2072_251916 **Date:** 3 – 7 October 2027 **Location:** Geneva **Fees:** 8000 Euro

Overview

Oilfield Production Chemistry and Chemical Treatment Training Course is a one-week course for production chemists, petroleum and flow assurance engineers, operations personnel, laboratory specialists, and chemical treatment teams who leave with a Production Chemistry Control Pack. Participants connect representative sampling, fluid chemistry, deposition and corrosion risks, treatment selection, injection performance, and surveillance evidence. Agile Leaders Training Center develops applied oilfield production chemistry practice.

Who Should Attend

- Production chemistry functions responsible for fluid characterization, treatment selection, and performance review
- Flow assurance functions responsible for scale, hydrates, wax, asphaltenes, emulsions, and deposition risks
- Operations functions responsible for chemical injection, sampling, field observations, and response actions
- Laboratory functions responsible for sample integrity, testing, compatibility, residuals, and result quality
- Asset integrity functions responsible for corrosion, microbial risks, produced-water chemistry, and treatment evidence

The course assumes participants can interpret production conditions, laboratory results, and operating records, and it leaves chemical formulation, hazardous laboratory procedures, and site-specific injection authorization outside scope.

Departments and Industries

The course supports departments and industries that manage production-fluid chemistry and chemical treatment.

- Oil and gas production, gathering, processing, and flow assurance teams
- Offshore, onshore, subsea, and mature-field operations
- Production laboratories, chemical services, and technical support groups
- Produced-water treatment, water injection, and asset integrity departments
- Pipeline, terminal, separation, and surface-facility operations

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Learning Objectives

By the end of this course, participants will be able to:

- Build a representative sampling and fluid-analysis plan.
- Analyze scale, corrosion, hydrate, wax, asphaltene, and emulsion risks.
- Evaluate produced-water and microbial chemistry evidence.
- Compare chemical-treatment candidates using fit-for-purpose tests.
- Diagnose injection, compatibility, dosage, and monitoring problems.
- Build treatment KPIs and an optimization action record.

Course Agenda

Day 1: Establish Production Chemistry Evidence

- Production System Chemistry Boundary Map
- Representative Fluid Sampling and Preservation Plan
- Brine Ion, Hydrocarbon, Gas, and Solids Data Sheet
- Laboratory Result Quality and Detection-Limit Review
- Chemistry Risk Register and Surveillance Baseline

Day 2: Assess Inorganic and Integrity Risks

- Scale Saturation and Water Compatibility Screen
- Corrosion Mechanism and Fluid Corrosivity Matrix
- Iron, Solids, Residual, and Corrosion Monitoring Trend
- Produced-Water Treatment Chemistry Map
- Microbial Sampling, Biofilm, and Deposit Evidence Guide

Day 3: Assess Flow Assurance Chemistry

- Hydrate Formation and Inhibitor Decision Map
- Wax Appearance and Deposition Risk Screen
- Asphaltene Stability and Precipitation Test Plan
- Emulsion Bottle Test and Demulsifier Selection Matrix
- Foam, Naphthenate, and Mixed-Deposit Diagnostic Guide

Day 4: Select and Monitor Treatment

- Chemical Candidate Qualification and Compatibility Matrix
- Dosage Basis and Injection Location Review
- Storage, Pump, Quill, and Injection-System Checksheet
- Residual, Performance, and Treatment KPI Dashboard
- Treatment Failure Troubleshooting and Optimization Log

Day 5: Practice Production Chemistry Control

- Suggested Exercise: Validate a Fluid Sampling Plan
- Suggested Exercise: Diagnose a Scale and Corrosion Scenario
- Suggested Exercise: Compare Flow Assurance Chemical Options
- Suggested Exercise: Correct an Injection Performance Problem
- Capstone Exercise: Present a Production Chemistry Control Pack

Practical Exercises

The course uses suggested activities based on production-fluid, laboratory, and treatment evidence.

- Suggested activity: identify sampling bias and build a chain from field conditions to interpretable laboratory results.
- Suggested activity: evaluate scale, corrosion, deposition, emulsion, produced-water, and microbial evidence for a production system.
- Suggested activity: compare candidate treatments using compatibility, performance, deployment, monitoring, and risk criteria.
- Suggested activity: diagnose an underperforming injection point and define corrective checks, KPIs, and follow-up sampling.

FAQs

Who suits oilfield production chemistry training, and what does it assume?

Oilfield production chemistry training suits chemistry, petroleum, flow assurance, operations, laboratory, and treatment personnel who interpret production conditions, test results, and operating records.

How does production chemistry differ from petroleum production engineering?

Production chemistry concentrates on fluid reactions, deposits, corrosion, water chemistry, microbes, chemical selection, and treatment performance, while production engineering covers the wider well and production-system performance.

Why is representative sampling important in oilfield production chemistry?

Representative sampling links test results to actual pressure, temperature, phase, location, contamination risk, preservation, timing, and operating conditions, allowing treatment decisions to use defensible evidence.

How is oilfield chemical-treatment performance monitored?

Treatment performance is monitored through injection rate and uptime, chemical residuals, corrosion and scale indicators, water and deposit analysis, process response, failures, sampling quality, and agreed operating KPIs.

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Conclusion

Participants take a Production Chemistry Control Pack back to their organization. It combines sampling plans, chemistry screens, treatment qualification tools, injection checks, surveillance trends, KPIs, and troubleshooting records. The pack turns field and laboratory evidence into traceable chemical-treatment decisions and optimization actions.