



WE095: Oilfield Water Treatment Programme



Training Description:

Waters produced during the extraction of oil and natural gas reserves must be properly managed in order to mitigate any environmental impacts and effects to existing water supplies. The chemistry and composition of produced waters is highly variable and in many cases are quite complex. Produced waters are generally characterized as brackish water solutions containing high concentrations of dissolved minerals and salts. The most significant concern for developing effective management strategies for these waters is removing waters or reducing the total dissolved solids concentration prior to re-use or disposal. The aim of this course is to provide an introduction to, and basic understanding of produced water chemistry and its associated testing, analysis and treatment.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Apply appropriate testing, analysis and treatment technologies
- ✓ Develop and understand on quality system documentation for the laboratory
- ✓ Examine oilfield water decomposition of all geological ages
- ✓ Recognize a range of processes for the collection, analysis, and interpretation of oilfield brines and deep basin waters
- ✓ Review and interpret chemical classifications of oilfield waters
- ✓ Identify appropriate treatment technologies for the economic re-use or disposal of production waters

Training Designed for:

This course is intended for science, engineering and technology professionals from a wide range of backgrounds.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Oilfields
 - Module 1 – Subsurface Waters
 - Module 2 – Composition of Produced Water
 - Module 3 – Chemical Classification

DAY TWO:

- ❖ Oilfields (cont'd)
 - Module 4 – Interpretation of Classifications
- ❖ Testing & Analysis
 - Module 5 – Sample Collection
 - Module 6 – Sample Analysis



DAY THREE:

❖ Testing & Analysis (cont'd)

- Module 7 – Interpretation of Results
- Module 8 – Case Study 1: Geological Age and Oilfield Water

DAY FOUR:

❖ Treatment

- Module 9 – Salinity
- Module 10 – Conventional Systems

DAY FIVE:

- Module 11 – Advanced Separation
- Module 12 – Membrane Processes
- Module 13 – Case Study2: Deep Basin Brines

❖ Course Conclusion

❖ POST-TEST and EVALUATION

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request”.

Please note that the above topics can be amended as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant’s manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.



Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:

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Training & Career Development Department

