

CHEMISTRY IN THE OIL INDUSTRY XIX

‘Shaping the Future of Energy’

20-22 APRIL 2026
MANCHESTER, UK



SHORT TRAINING COURSE:

‘Understanding Production Chemistry and Oil Water Separation and Treatment’

Dr. Wally Georgie

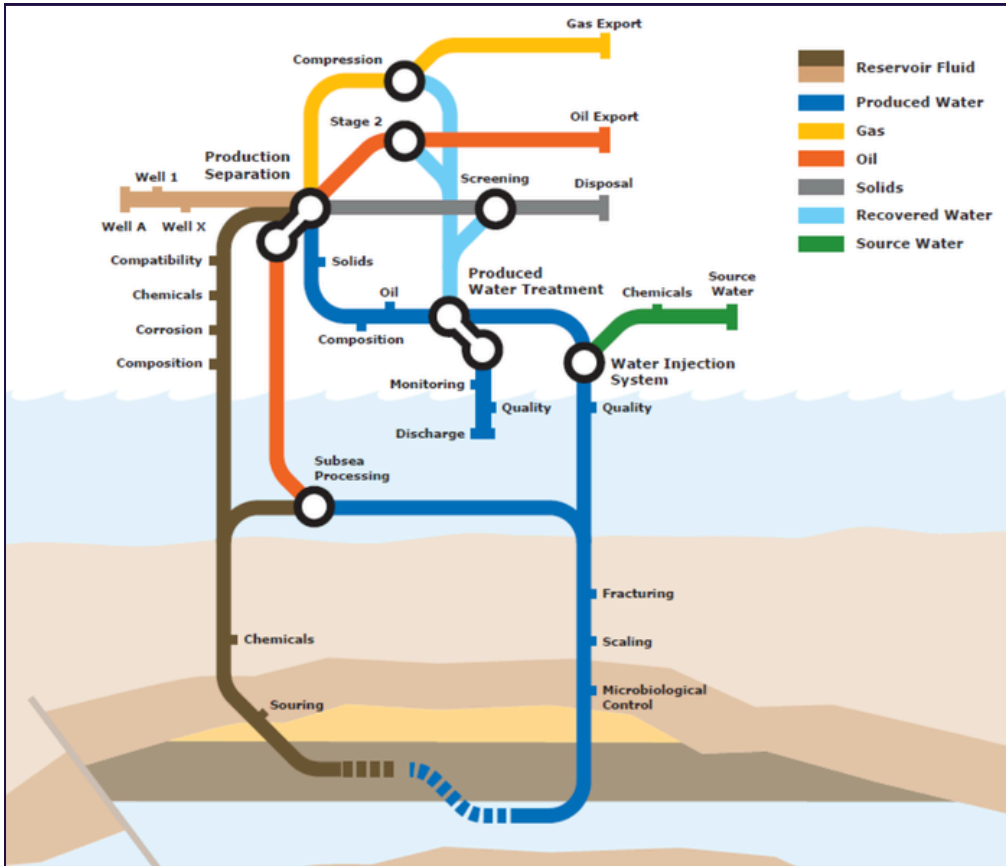
Course Description

The addition of different process and flow assurance chemicals is necessary in oilfield production and operation. The different production chemicals can cause different operational issues if not applied effectively and in optimum means. An outline of all the different associated production chemical issues will be addressed in this short training course, to minimise or eliminate the negative impact of the chemical's treatment selection and application.

The training course will include the following elements that need to be fully assessed, before starting selecting and applying the chemicals:

- Understanding the nature of the produced fluid
- Getting familiar holistically with all potential issues associated with oil, water and gas production in the field
- Are there any third-party production with different fluid composition and chemicals
- The design of the chemical injection system and why it is so important to know how the system is designed and how it will be operated
- Production, process design and lineup are critical to the effectiveness of the chemicals applied
- How much do you know about separator design and internals and how the internal configuration can impact the oil water separation
- Injection point design, locations and how treatment effectiveness can be influenced by how chemicals are applied and where in the system

- The recycling of recovered fluid process streams is crucial to the success of chemical treatment, why? With field case events will provide some examples of how this issue has caused series negative impact in plant performance and on integrity, with chemicals such as scale inhibitor, H2S scavenger and water clarifier
- Formulating the different chemicals and their impact on the treatment efficiency
- Short group class exercise covering the different aspects of the training material



Training Course Content Map



Dr. Wally Georgie - Bio

Wally Georgie is an independent consultant with over 40 years' experience in the oil and gas industry, namely in oil and gas operation, processing, separation, fluid handling and system integrity.

Wally specialises in Oil Water Separation, Produced Water Treatment and Management, Water Injection systems operation and treatment, Sand and Solid Management, Gas processing and treatment, Flow Assurance, Corrosion Engineering and Integrity, Sour production, all aspects of Production Chemistry Management, Operation Assurance process design review of both Green and Brown field developments.

Wally's career has spanned a number of Oil and Gas Operators, Engineering companies and FPSO Operators worldwide, including working for Statoil in Norway (Now Equinor), consulting for different projects for several of the major operators including Chevron, ConocoPhillips, BP, ExxonMobil, Hess, Woodside and FPSO Operator SBM.

Wally obtained his Ph.D. in Applied Chemistry from Strathclyde University Glasgow Scotland (1977).