

# Applied Water Technology in Oil and Gas Production

*Fundamental Theory and the Latest Technology Developments emphasizing on the Field Applications of Main Water Handling Systems typically encountered in Upstream Production Operations, both Onshore and Offshore.*

**10th & 11th September 2020**

**Kuala Lumpur, Malaysia**

## Major Benefits of Attending

By end of this course, delegates will be able to:

- **UNDERSTAND** the general concept of water chemistry, characteristics quality and standards
- **MONITOR** and **CONTROL** corrosion, scale, and bacterial growth in produced water and water injection/disposal systems
- **IMPLEMENT** system surveillance programs to detect potential problems before system damage occurs
- **UNDERSTAND** the most updated technologies of oilfield water treatment handling, characteristics quality and standards
- **FAMILIARIZE** with sampling techniques and field and laboratory measurement
- **PROVIDE** the theory and application of effective water treatment systems for industrial cooling and steam generation
- **INTRODUCE** the up-to-date technologies for industrial wastewater minimization, water pollution control, and waste and sour water treatment
- **OBTAIN** a broad working knowledge of well fluid separation and dehydration process to gain insight into both traditional and advanced techniques
- **EXPLAIN** effects of deviation in values of process parameter from optimum ones
- **INJECT** the right quantity of water to reservoir and assure the right quality
- **OPTIMIZE** daily consumption of used chemicals.
- **EXPLAIN** key steps in operations and operation monitoring procedures
- **DESCRIBE** operations common upset conditions and their handling techniques
- **DESCRIBE** common operational problems and best practices in handling them

## Why you Should Attend?

This course covers the fundamental theory, and the latest technological developments. It particularly emphasizes field application through lots of practical field examples, exercises and case studies.

This course provides an overview of the main water handling systems typically encountered in upstream (E&P) production operations, both onshore and offshore. The chemistry of the main water-related problems of mineral scales, corrosion, bacteria, and oily water will be reviewed both from the theoretical and practical aspects.

Moreover, this course includes detection of chemicals (ions and cations in wastewater and heavy metals, in addition to conductivity pH, TDS, and particle size distribution.

## Who Should Attend?

This course is aimed at:

- Production & Process engineers & technicians
- Petroleum & Reservoir engineers
- Plant and field engineers
- Piping and Pipeline engineers
- Geologists
- Well log geologists & engineers
- Operations and Manufacturing managers and supervisors
- HSE managers
- Technical managers and supervisors
- Maintenance coordinators
- New engineers that need to understand produced water related problems in the production of oil and gas
- Those from oil & gas exploration & production sector
- Those interested in obtaining a general understanding of the industry

Organized by:



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