



Water Treatment Fundamentals in Industry

Website: www.btsconsultant.com

Email: info@btsconsultant.com

Telephone: 00971-2-6452630

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Who Should Attend?

- Engineers, operators and lab chemists who deals with water treatment in industry

Methodology:

This interactive Training will be highly interactive, with opportunities to advance your opinions and ideas and will include;

- Lectures
- Workshop & Work Presentation
- Case Studies and Practical Exercise
- Videos and General Discussions

Certificate:

BTS attendance certificate will be issued to all attendees completing minimum of 80% of the total course duration.

Objectives:

An advanced course to develop the engineers and operators deals with water purification used in plants generally, basically about:

- Overview of Water.
- Seawater Use in a Refinery.
- Seawater Use for Reservoir Injection.
- Aquifer Water for Onshore Facilities.
- Water Produced With Crude Oil Well Water For Desalting.
- Domestic Sewage Treatment.

Contents:

Overview of water:

- Sources and important properties of water available in general facilities.
- Types of impurities in water and problems caused by the impurities.
- Water uses, disposal, and treatment as related to deferent facilities.
- Importance of sampling and analyzing water in water treatment.

Seawater use in a refinery:

- Problems that impurities in seawater cause in steam generating systems.
- Multiple flash evaporator systems.
- Water treatment requirements for a steam generating system.

Seawater use for reservoir injection:

- Injection water specifications and seawater impurities.
- Treatment for prevention of biological fouling.
- Removal of suspended solids by media filters.
- Corrosion control by removal of oxygen from seawater.

- Injection water pipeline scraping.

Aquifer water for onshore facilities:

- Problems that impurities in water cause in treatment processes and uses.
- Electro dialysis system.
- Ion exchange resin softening.
- Forced draft degassifier and vacuum desecrators.
- Production of potable water.
- Ion exchange resin demineralization.
- Cooling water systems.

Water produced with crude oil well water for desalting:

- Equipment used to separate produced water and salt from wet crude oil.
- Prevention of water-related problems in desalting operations.

Domestic sewage treatment:

- Domestic sewage.
- Primary wastewater treatment.
- Secondary wastewater treatment.
- Tertiary wastewater treatment.