Industrial Waste Water Treatment & Environmental Protection

HH198

Course Overview:

For the waste water industry this effectively means effluent and sludge, by-products of sewage treatment, should be viewed as resources to be reused in a beneficial and sustainable manner, rather than wastes requiring disposal. The reuse of these materials involves treating them to a level appropriate for their intended reuse application and using the resulting water (termed reclaimed water) or sludge (termed bio-solids) in a sustainable manner for a beneficial purpose.

Course Objective:

-Apply best practices of waste water treatment for industrial applications
-Identify the different waste water treatment systems available
-Maintain and troubleshoot industrial waste water treatment systems
-Implement the rules and regulations that affect the management of industrial waste water permitting, effluent guidelines, and associated issues
-Interpret environmental protection standards and applications

Course Outline:

-Wastewater Sampling and Testing
-Pretreatment and Primary Treatment
-Types of treatment processes
-Filtration fundamentals
-Disinfection fundamentals
-Reverse Osmosis (RO)
-Disinfection Processes
-Characteristics of Effluents
-Discharge into Receiving Systems
-Environmental Management of Industrial Waste Water Treatment
-Hazardous Waste Regulations and the need for harmonization
-Life Cycle Management of Industrial Waste Water treatment
-The importance of documentation in Waste Water treatment

Who Should Attend:

Industrial waste water compliance managers, supervisors, engineers, inspectors, plant managers and HSE staff. Also, the course is suitable for operations, inspection, maintenance and design engineers and technical staff including laboratories.

Training Language:

English

Training Methodology:

-Presentation & Slides
-Audio Visual Aids
-Interactive Discussion
-Participatory Exercise
-Action Learning
-Class Activities
-Case Studies
-Workshops
-Simulation