Training Title

WATER & PROCESS CHEMISTRY FOR PLANT OPERATIONS

Training Duration

5 days

Training Venue and Dates

Water & Process Chemistry for Plant Operations	*5*	*16-20 September 2024*	*$5,500*	*Dubai, UAE*

Trainings will be conducted in any of the 5 star hotels.

Training Fees

- ***5,500 US$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.***

Training Certificate

Prolific Consultants FZE Certificate of Course Completion will be issued to all attendees.

COURSE OVERVIEW

Water occupies 70 % of the earth's surface. Also, in the human body, water is present to the extent of 70 %. But water is increasingly becoming a scarce resource. Large and small scale users need to take action to on serve it not only because it is prudent practice to do so for their own benefit, but also because it is an active demonstration of their concern about the global pollution and environmental problems.

Large industries in particular are required to employ environmental specialists to assist them to identify potential savings, to prepare for audits, to need strict standards etc. Engineers need to be conversant with water treatment technology so that they themselves can identify opportunities for treating & saving water and can communicate better with the specialists.

This Training will go through the basic principles of water chemistry and water treatment & wastewater treatment techniques and establish a common way of approach to water use issues. It will examine the various techniques and technologies which can be used to achieve what can sometimes be enormous savings through the implementation of appropriate solutions. The course covers the industry in general but will be customized to the needs of the participants / clients during the program. A key part of the course is the total system approach to Quality, Health, Safety, Environmental Management, and Pollution control.

This program provides an overview of a number of Appropriate Techniques associated with Water Treatment equipment, systems, people and management. It describes both the background to each technique and its practical application to achieve the best results.

COURSE OBJECTIVES:

The delegates will learn how:

To understand the role of the following concepts:

Water Chemistry, Water Treatment, and Waste Water Treatment techniques in increasing productivity, Quality, Health, Safety, Environment, Pollution Control etc.

To apply the appropriate Techniques / Processes

- ***Each of these techniques contributes to maintenance efficiency.***
- ***These techniques can be used to stand alone or interact with and support each other.***
- ***To achieve the best results in practicing these techniques***
- ***To develop an action plan to utilize these techniques in their own areas of responsibility, fitting them into the overall treatment strategy, and measuring benefits..***

SUITABLE FOR:

Senior Operators, Supervisors, Engineers, in Laboratory, Water Treatment, Wastewater Treatment, Maintenance, Engineering and Production

Anyone who wishes to update themselves on these Technologies, judge the suitability of these technologies for their needs, and learn how to implement them for the benefit of their organizations.

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

COURSE OUTLINE :-

This program covers the following topics:

1. ***Introduction - Importance of Water, Water Chemistry, and Water Treatment***
2. ***Relevance of the Subject ISO Management Systems like ISO 9001 QMS, ISO 14001 EMS, and OHSAS 18001, besides ISO 22001 FSMS***
3. ***Water Quality and the Environment***
4. ***Water Chemistry***
5. ***Chemical Properties of Water***
6. ***Contaminants***
7. ***Water Analysis***
8. ***Hardness of Water***
9. ***Water Treatment in General Terms***

10. *Drinking Water treatment*
11. *Removal of Hardness*
12. *Wastewater Treatment*

Case Studies, Last Day Review, Discussions & Pre & Post Assessments will be carried out.

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