



SWIMMING POOL MAINTENANCE & TREATMENT

Swimming Pool Maintenance & treatment

Program #: TSP-0005

Description

The Swimming Pool Water Treatment training aims to enable trainees to understand the basic principles of the treatment of swimming pool water. It provides trainees with the knowledge and skills to competently test water and maintain safe bathing conditions.

Who Should Attend ?

- Pool operators, technical and professionals responsible on water bodies in
 - Swimming Pools
 - Sports and Leisure Centers
 - Health Clubs
 - Spas (Including those displayed in retail outlets / distributors / installers
 - Hotels
 - Holiday Parks
 - Hydrotherapy Pools
 - Schools
 - Parks
 - Lidos
 - Interactive water features
 - Swim schools

Learning Objectives

- Understanding the sources of pollution and control measure
- Understanding basic principles of pool water filtration and backwashing
- Understanding the key features of a swimming pool circulation system
- Understanding the potential dangers and hazards associated with suction entrapment and entanglement
- Understanding the role and purpose of disinfectants in swimming pools
- Understanding the pH scale, its function and related water terminology
- Understanding the basic principles of water testing, recording and interpretation leading to corrective action

Prerequisites

- None

Training Place

- In house training
- As NCV schedule

Content

- Scientific Material (**Hardcopy**)
- Attendance Certificate from **NCV**

Duration

- 3 Days

Language

- Arabic / English

Outcomes

- Understand the systems used to maintain the quality of swimming pool water
- Understanding the sources of pollution and control measure
- Understanding basic principles of pool water filtration and backwashing
- Understand how to monitor and maintain swimming pool plant
- Understand how to maintain the quality of swimming pool water
- Understand how to work safely with the chemicals used in swimming pool plant operations
- Know about swimming pool water tests
- Be able to carry out swimming pool water testing
- Be able to carry out routine (daily/ weekly) maintenance procedures to swimming pool plant



Swimming Pool Maintenance & treatment

Program #: TSP-0005

Agenda

Day 1:

- **Basic requirements of Swimming Pool Water Treatment**
 - Swimming pool safety
 - Water Circulation - simple diagram of pool layout
 - Flow Rate - explanation of turnover time and the importance of filtration and circulation.
 - Dilution - addition of fresh water .
- **Main Treatment Processes**
 - Filtration and filter Backwashing - how it works, what it does and why?
 - Flocculation - how it works and why it is necessary. Types of flocculation currently available
 - Water Disinfection - its purpose

Day 2:

- **Water Treatment Chemicals**
 - List of current popular products and processes with explanation of how they work, advantages and disadvantages including
- **Spa Pools**
 - Design and Capacity
 - Filtration
 - Chemical Treatment
 - Operational Criteria

Day 3

- **Water Testing Equipment and Methods**
 - Colorimetric analysis
 - Photometric analysis
 - Electrochemical methods (Redox and Amperometric)
 - Chlorine
 - Bromine
 - pH
 - Alkalinity
 - Ozone
 - Calcium Hardness
 - Chloride
 - Sulfate
 - TDS (Total Dissolved Solids)
 - Langelier Balanced Water Index
 - Operational Problems and Troubleshooting Water Testing Equipment and Methods
 - Colorimetric analysis
 - Photometric analysis
 - Electrochemical methods (Redox and Amperometric)
 - Chlorine
 - Bromine
 - pH
 - Alkalinity
 - Ozone
 - Calcium Hardness
 - Chloride
 - Sulfate
 - TDS (Total Dissolved Solids)
 - Langelier Balanced Water Index
- **Operational Problems and Troubleshooting**