



*Training Course:  
Standard Method for the Examination of Water  
and Wastewater*

*7 - 11 December 2025  
Istanbul (Turkey)  
DoubleTree by Hilton Istanbul Esentepe*

## Training Course: Standard Method for the Examination of Water and Wastewater

Training Course code: EN235957 From: 7 - 11 December 2025 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 6500 ₺ Euro

### Introduction

This specialized training program, designed by Global Horizon Training Center, aims to equip laboratory technicians, engineers, and environmental professionals with in-depth knowledge and skills on the Standard Methods for the Examination of Water and Wastewater, which is globally recognized for its accuracy and consistency in water quality analysis. The course provides hands-on and theoretical exposure to the procedures, instrumentation, quality assurance, and safety protocols involved in testing potable water, wastewater, and environmental samples. Participants will be trained in accordance with internationally accepted standards to ensure reliable, reproducible, and compliant results.

### Objectives

By the end of this program, participants will be able to:

- Understand the structure and purpose of the Standard Methods for the Examination of Water and Wastewater.
- Identify key parameters for physical, chemical, and biological water quality testing.
- Apply correct sampling procedures and laboratory practices.
- Conduct tests for various water and wastewater indicators such as pH, BOD, COD, turbidity, and microbial content.
- Interpret analytical results and ensure data quality and compliance with standards.
- Integrate safety, documentation, and reporting protocols in lab environments.

### Methodology

The training will use a blend of instructional methods including:

- Expert-led theoretical presentations
- Demonstrations of laboratory testing procedures
- Group discussions and case studies

- Hands-on application through simulated lab exercises
- Daily debriefs and quizzes to reinforce learning

## Organizational Impact

Organizations will benefit from:

- Improved water quality monitoring and reporting practices
- Enhanced regulatory compliance with environmental and health standards
- Reduced risk of environmental contamination and public health issues
- Better decision-making based on accurate water quality data
- Increased competency and accountability among laboratory and operations staff

## Target Audience

This program is ideal for:

- Environmental Engineers and Scientists
- Water and Wastewater Laboratory Technicians
- Quality Control and Assurance Officers
- Public Health and Environmental Inspectors
- Industrial and Municipal Water Treatment Operators
- Regulatory Compliance Professionals

## Outlines

Day 1: Introduction to Standard Methods and Water Quality Frameworks

- Overview of the Standard Methods for the Examination of Water and Wastewater
- Regulatory bodies and compliance requirements EPA, WHO, local standards

- Types of water and wastewater samples
- Sampling techniques and chain of custody
- Laboratory safety procedures and equipment overview

#### Day 2: Physical and Chemical Analysis Methods

- Measurement of pH, temperature, turbidity, and conductivity
- Total dissolved solids TDS and suspended solids TSS
- Determination of hardness, alkalinity, and chlorides
- Use and calibration of basic instruments
- Quality assurance/control in physical and chemical tests

#### Day 3: Organic and Inorganic Chemical Analysis

- Analysis of Biological Oxygen Demand BOD and Chemical Oxygen Demand COD
- Detection of nutrients: nitrates, nitrites, ammonia, and phosphates
- Heavy metals analysis e.g., lead, arsenic, mercury
- Sample preparation and preservation for advanced testing
- Laboratory documentation and result recording

#### Day 4: Microbiological Examination of Water and Wastewater

- Introduction to microbiological parameters e.g., Total Coliform, E. coli
- Membrane filtration and multiple-tube fermentation techniques
- Sterilization and contamination prevention
- Interpretation of microbial results
- Case studies on microbial contamination incidents

#### Day 5: Data Interpretation, Reporting, and Practical Application

- Interpretation of laboratory results against standards
- Preparing technical reports and summaries for decision-makers

- Troubleshooting analytical issues
- Hands-on laboratory simulation mock analysis session
- Final assessment and group review session.

## Registration form on the Training Course: Standard Method for the Examination of Water and Wastewater

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Company Information

Company Name: .....  
Address: .....  
City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
- ☐ Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
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