



London TDM

# Health, Safety, and Environment (HSE) Training

**Course Venue:** United Arab Emirates - Dubai

**Course Date:** From 12 April 2026 To 16 April 2026

**Course Place:** Downtown Dubai

**Course Fees:** 5,000 USD

## Introduction

The "Water and Wastewater Management" course is designed to equip professionals with the knowledge and skills needed to effectively manage water resources and wastewater systems. Throughout this 5-day course, participants will explore the fundamental principles of water management, understand regulatory frameworks, and learn about innovative technologies and best practices. This comprehensive course is ideal for environmental engineers, urban planners, and water management professionals seeking to enhance their competencies in this critical field.

- Understand the fundamental principles of water and wastewater management.
- Analyze regulatory frameworks and compliance requirements.
- Explore innovative technologies for water treatment and reuse.
- Develop strategies for sustainable water resource management.
- Address challenges and solutions in wastewater management.

## Course Outlines

### Day 1: Fundamentals of Water Management

- Introduction to Hydrological Cycle
- Principles of Water Resource Management
- Water Demand and Supply Planning
- The Role of Water in Ecosystems
- Risk Assessment in Water Management

### Day 2: Regulatory Frameworks and Standards

- Overview of Water Management Regulations
- International Standards for Water Quality
- Compliance Strategies for Water Utilities
- Legal Considerations in Water Rights
- Case Studies: Success Stories in Regulation Compliance

### Day 3: Technologies in Water Treatment and Reuse

- Advanced Water Treatment Technologies
- Desalination and its Applications
- Water Reuse and Recycling Techniques
- Integration of Smart Water Management Systems
- Case Studies: Innovation in Water Treatment

### Day 4: Sustainable Water Resource Management

- Strategic Planning for Sustainable Water Use
- Impact of Climate Change on Water Resources
- Community-Based Water Resource Management
- Non-Conventional Water Resources - Innovations and Challenges
- Case Studies: Sustainable Water Management Practices

## **Day 5: Challenges and Solutions in Wastewater Management**

- Understanding Wastewater Characteristics
- Effective Wastewater Treatment Technologies
- Strategies for Sludge Management
- Decentralized Wastewater Management Solutions
- Future Trends in Wastewater Management