



مركز الوقت للتدريب
Time Training Center

**BEST PRACTICE IN POTABLE WATER
DISINFECTION COURSE**



Introduction

The Best Practice in Potable Water Disinfection course provides a comprehensive understanding of modern disinfection methods to ensure the safety and quality of drinking water. Designed for professionals in water utilities, public health, and environmental management, the course explores key topics such as microbial risk control, disinfection technologies, and regulatory compliance. Participants will gain insights into selecting appropriate disinfection methods, managing disinfection by-products, and maintaining system integrity. With increasing demand for safe and sustainable water, this course equips learners with essential skills for protecting public health and achieving regulatory standards.

Learning Objectives

- Understand principles of potable water disinfection
- Evaluate chemical and physical disinfection methods
- Manage microbial risks in water distribution
- Comply with international water quality standards
- Monitor disinfection effectiveness and by-products
- Implement safety protocols in disinfection processes

Course Details

Mode of Training	Classroom or Online
Duration	5 Days

Who Should Attend

- Water treatment and utility professionals
- Environmental and public health officers
- Water quality and compliance specialists
- Engineers involved in water system design
- Facility and operations managers in water services

Certificate(s)

Participants who complete a minimum of 80% of the total training hours will receive a **Certificate of Completion** issued by **Time Training Center**. This certificate reflects their active participation and commitment to professional development in the relevant field.

Course Outline

Module 1: Fundamentals of Potable Water Disinfection

- Role of disinfection in water safety
- Overview of microbial pathogens and health risks
- Regulatory benchmarks (WHO, EPA, local standards)

Module 2: Disinfection Methods and Technologies

- Chlorination, chloramination, and ozonation
- UV disinfection and emerging technologies
- Comparative advantages and limitations

Module 3: Disinfection By-products and Residuals

- Types and health impacts of by-products
- Monitoring and control strategies
- Regulatory thresholds and mitigation

Module 4: System Design and Operational Control

- Disinfection system configuration
- Process control and real-time monitoring
- Handling and safety of disinfection chemicals

Module 5: Monitoring, Testing, and Verification

- Field sampling and lab testing methods
- Verifying disinfection performance
- Incident response and corrective measures



Module 6: Case Studies and Best Practice Implementation

- Lessons from international and regional case studies
- Strategies for continuous improvement
- Community awareness and public safety communication

Methodology

We employ a comprehensive and applied learning strategy, integrating theory with real-world implementation:

- ❖ **Conceptual Learning:** Expert-led sessions on catalytic theory and engineering principles
- ❖ **Interactive Workshops:** Group exercises, presentations, and technical discussion forums
- ❖ **Case-Based Learning:** Industry-specific examples and troubleshooting scenarios
- ❖ **Technology Integration:** Digital tools, simulations, and catalyst modeling applications
- ❖ **Assessment:** Pre-tests, post-tests, and Competence Validation Exams for Certified courses to ensure knowledge transfer and skills validation

Note: Instructors may adjust the training approach to fit technical requirements or participant engagement levels.

Instructors

Our trainers are subject matter experts in water treatment and environmental health with over 10 years of industry experience. They have worked with water utilities, health departments, and infrastructure projects across the region. Their expertise covers both conventional and advanced disinfection practices, enabling participants to learn through real-world examples and industry benchmarks. Full trainer profiles will be provided upon registration.

About Time Training Center

Time Training Center is a leading professional training institute in Abu Dhabi that provides students and professionals with quality education and skill development programs. Time Training Center is accredited by the Abu Dhabi Center for Technical Vocational Education & Training (ACTVET) with a specialization in Computer and Management Training programs and certified by QA QC with ISO 9001:2015.

Operating in Abu Dhabi for over 3 decades, Time Training Center has established brand value as a high-quality Management & Technical Training Center in Abu Dhabi. We have also secured strong loyalty from corporate companies and associations with our holistic and practical teaching approach.

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