

WATER AUDIT AND LEAK DETECTION TECHNIQUES

“Optimize Water Management and Minimize Losses through Effective Auditing”

Schedule

Date	Venue	Fees (Online)
28 Sep 2026	Online	USD 450 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Efficient water management is crucial for sustainability, cost savings, and regulatory compliance. This 1-day online course provides participants with practical knowledge and techniques to conduct water audits and detect leaks in water systems. Participants will learn how to evaluate water usage, identify inefficiencies, and implement corrective measures to reduce losses and improve system performance.

Through case studies, interactive exercises, and practical demonstrations, attendees will gain the skills required to conduct comprehensive water audits and implement leak detection strategies. By the end of the program, participants will be able to optimize water consumption, prevent wastage, and support sustainable water management initiatives.

Objectives

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

- Understand the principles of water auditing and conservation.
- Identify water losses and inefficiencies in systems.
- Apply leak detection techniques effectively.
- Implement corrective and preventive measures for water management.
- Promote sustainable practices and regulatory compliance in water usage.

Why Attend

- Gain practical skills in water auditing and leak detection.
- Learn to identify and minimize water losses efficiently.
- Improve system performance and operational sustainability.
- Ensure compliance with water management regulations and best practices.
- Network with peers and share experiences in water conservation strategies.

Target Audience

This program is designed for:

- Facility managers and engineers
- Environmental and HSE professionals
- Operations and maintenance personnel
- Water utility and sustainability officers
- Professionals responsible for water efficiency and leak detection programs

Individual Benefits

Key competencies that will be developed include:

- Mastery of water audit techniques and methodologies.
- Skills to detect leaks and inefficiencies in water systems.
- Ability to implement corrective and preventive actions.
- Knowledge of sustainable water management practices.
- Capability to improve operational efficiency and resource conservation.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced water losses and improved operational efficiency.
- Enhanced compliance with regulatory and sustainability standards.
- Cost savings through optimized water usage.
- Improved environmental performance and resource management.
- Stronger organizational commitment to sustainable water management.

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Overview of water auditing principles and leak detection techniques
- Case Studies - Real-world examples of water audit and leak detection practices
- Workshops - Hands-on exercises for conducting audits and detecting leaks
- Peer Exchange - Group discussions on challenges and best practices in water management
- Tools - Templates for water audit reports, monitoring logs, and corrective action plans

Course Outline

Detailed 1-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Break: 01:00 – 02:00

Day 1: Water Audit and Leak Detection Techniques

- **Module 1:** Introduction to Water Auditing Principles (07:30 – 09:30)
- **Module 2:** Identifying Water Losses and Inefficiencies (09:45 – 11:15)
- **Module 3:** Leak Detection Methods and Tools (11:30 – 01:00)
- **Module 4:** Workshop: Conducting a Water Audit and Action Plan (02:00 – 03:30)

Certification

Participants will receive a Certificate of Completion in Water Audit and Leak Detection Techniques, validating their expertise in water auditing, leak detection, and sustainable water management practices.

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