

Water Conservation Auditor for Green Compliance Certification

15 – 19 November 2026
Online

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Ref: 3256063_360077 Date: 15 – 19 November 2026 Location: Online Fees: 2700 GBP

Introduction

Water conservation is a critical component of sustainable building management and green compliance. Effective water auditing enables organizations to identify water consumption patterns, detect inefficiencies and leaks, optimize water systems, and develop practical measures to reduce water consumption and operating costs.

This course provides participants with a structured and practical approach to conducting water conservation audits across different types of buildings. It covers the assessment of plumbing systems, water balance, water fixtures, cooling and heating systems, water reuse, and water hygiene.

Participants will learn how to collect and analyze water consumption data, evaluate water-use efficiency, identify areas of excessive consumption, and assess opportunities for water conservation and reuse. The course also introduces the principal instruments and records used during field assessments.

Through practical examples, case studies, demonstrations, and exercises, participants will develop the skills required to perform effective water conservation audits and prepare practical recommendations that support sustainability and green compliance objectives.

Course Objectives

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

- Understand the fundamentals of water conservation and sustainable water management in buildings.
- Apply structured methodologies for conducting water conservation audits.
- Assess water consumption patterns and identify major areas of water use.
- Evaluate plumbing systems and their impact on water efficiency.
- Assess the performance and efficiency of water fixtures.
- Develop and analyze a building water balance.
- Evaluate cooling and heating systems from a water conservation perspective.
- Identify water losses, leaks, and inefficient water-use practices.
- Understand the principles and applications of water reuse.
- Assess water hygiene requirements and their relationship to building water management.
- Collect, validate, and analyze water consumption data.
- Use main meters and submeters for water consumption assessment.
- Apply appropriate field measurement instruments for water auditing.
- Identify practical opportunities for reducing water consumption and improving water efficiency.
- Prepare recommendations and action plans to support green compliance and sustainable water management.

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Course Outlines

Day 1: Water Conservation Auditing Fundamentals and Green Compliance

- Fundamentals of water conservation and sustainable water management.
- The role of water conservation in green building compliance.
- Building water consumption patterns and major water-use categories.
- Sources of water consumption in different types of buildings.
- Types and levels of water conservation audits.
- Water audit objectives, scope, and methodology.
- Key stages of a water conservation audit.
- Identifying major water-consuming systems and areas.
- Water consumption data requirements.
- Introduction to building water-use analysis.
- Water efficiency indicators and performance measures.
- Establishing a baseline for water consumption.
- Identifying potential water losses and inefficiencies.
- Developing a practical water audit plan.
- Case study: Initial water conservation assessment of a building.

Day 2: Plumbing Systems, Fixtures and Water Balance

- Fundamentals of building plumbing systems.
- Main components of domestic water distribution systems.
- Cold and hot water systems and their consumption patterns.
- Assessment of plumbing system performance.
- Water fixtures and their impact on water consumption.
- Faucets, showers, toilets, urinals, and other water-using fixtures.
- High-efficiency and water-saving fixtures.
- Flow rates and fixture performance assessment.
- Pressure management and its impact on water consumption.
- Developing a building water balance.
- Water inflows, consumption, losses, and outputs.
- Identifying unexplained water losses.
- Leak detection and water-loss assessment.
- Practical exercise: Preparing a water balance for a building.

Day 3: Water Metering, Measurement, Reuse and Water Data Analysis

- Principles of water metering and measurement.
- Main meters and submeters.
- Water consumption monitoring and data collection.
- Meter reading, data validation, and accuracy.
- Ultrasonic flow meters and their applications.
- Calibrated flow bags and timed-volume measurement devices.
- Pressure gauges and water pressure assessment.
- Leak loggers and leak monitoring.
- Conductivity and TDS measurement.
- Analysis of water consumption patterns.
- Water consumption normalization and comparison.
- Identifying abnormal consumption patterns.
- Water-use baselines and performance indicators.
- Principles of water reuse and recovery.
- Sources and applications of reclaimed water.
- Practical exercise: Analysis of building water consumption data.

Day 4: Cooling, Heating Systems, Water Hygiene and Field Assessment

- Water consumption in cooling and heating systems.
- Cooling towers and associated water consumption.
- Cooling-tower cycles of concentration.
- Evaporation, blowdown, and water losses.
- Cooling-tower controller records and performance data.
- Water treatment and its relationship to water conservation.
- Heating systems and their water requirements.
- Identifying water losses in cooling and heating systems.
- Water hygiene fundamentals in building water systems.
- Maintaining appropriate water quality and hygienic conditions.
- Risks associated with poor water management.
- Field assessment procedures and measurement techniques.
- Selection and application of appropriate test instruments.
- Interpreting field measurement results.
- Practical demonstration: Water conservation field measurements.

Day 5: Water Efficiency Opportunities, Reuse Strategies and Audit Reporting

- Identifying water conservation opportunities.
- Low-cost and no-cost water-saving measures.
- Optimization of plumbing systems and fixtures.
- Improving cooling and heating system water efficiency.
- Leak reduction and water-loss prevention strategies.
- Water reuse and recovery opportunities.
- Water-efficient operational practices.
- Evaluating potential water and cost savings.
- Prioritizing water conservation measures.
- Developing practical water efficiency recommendations.
- Preparing a professional water conservation audit report.
- Presenting audit findings to management and stakeholders.
- Developing an implementation roadmap.
- Supporting green compliance through effective water management.
- Final case study: Complete water conservation audit of a building.

Why Attend this Course: Wins & Losses!

- Develop practical skills for conducting water conservation audits in buildings.
- Understand the relationship between water management and green compliance.
- Identify excessive water consumption and hidden water losses.
- Evaluate plumbing systems and water fixtures for efficiency.
- Develop and analyze building water balances.
- Assess cooling and heating systems from a water conservation perspective.
- Gain practical knowledge of water metering and field measurement techniques.
- Learn how to use key water audit instruments and measurement devices.
- Improve the ability to detect leaks and unexplained water losses.
- Understand practical water reuse and recovery opportunities.
- Assess water hygiene considerations within building water management.
- Develop realistic water-saving measures and recommendations.
- Improve the quality of water audit reporting and decision-making.
- Support organizations in reducing water consumption, operating costs, and environmental impact.

Frequently Asked Questions

1. Who should attend this course?

This course is suitable for water auditors, energy and sustainability professionals, facility and building managers, mechanical and electrical engineers, plumbing professionals, maintenance and operations personnel, environmental professionals, green building specialists, consultants, and other professionals involved in building water management.

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2. Is previous experience in water auditing required?

Previous experience is beneficial but not mandatory. The course provides a structured introduction to water conservation auditing principles, methodologies, measurements, and field assessment techniques.

3. Does the course cover plumbing systems and water fixtures?

Yes. The course covers building plumbing systems, hot and cold water systems, water fixtures, flow rates, pressure management, water losses, and opportunities for improving water-use efficiency.

4. Will participants learn how to use water audit instruments?

Yes. Participants will be introduced to the main instruments used for water conservation audits, including main meters and submeters, ultrasonic flow meters, calibrated flow bags or timed-volume devices, pressure gauges, leak loggers, conductivity/TDS meters, and cooling-tower controller records.

5. Does the course cover water reuse and water hygiene?

Yes. The course covers the principles and applications of water reuse, water recovery opportunities, water treatment considerations, and fundamental water hygiene requirements for building water systems.

6. Can this course be customized for a specific organization?

Yes. The course can be customized according to the organization's building types, plumbing and water systems, operational requirements, sustainability objectives, green compliance requirements, and specific water conservation priorities. It can also be delivered as an in-house program.

Conclusion

Effective water conservation begins with accurate measurement, reliable data, systematic auditing, and a clear understanding of how water is consumed throughout a building. A structured water audit enables organizations to identify losses, improve system performance, and prioritize practical conservation measures.

This course provides participants with a practical framework for assessing plumbing systems, water fixtures, water balances, cooling and heating systems, water reuse, water hygiene, and water consumption patterns. It also develops practical skills in using field measurement instruments and interpreting water-use data.

By combining auditing methodologies, metering, field measurements, water balance analysis, leak detection, reuse strategies, and audit reporting, the course enables participants to develop actionable recommendations that support water efficiency, cost reduction, sustainability, and green compliance.

The graphic features the text 'UK Training' in a small, grey font above the word 'PARTNER' in a large, bold, black font. This text is positioned over a background of concentric grey circles and a chessboard pattern. In the foreground, three chess pieces—a king, a pawn, and a knight—are visible, rendered in a 3D style with gold and silver finishes.

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