

## CPD TRAINING COURSE

# WATER LOSS AND LEAKAGE MANAGEMENT - LEVEL ONE



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### Overview

Leakage of water from the network is a serious problem on a national scale and that is reflected in every county across the country. Irish Water estimates almost half of the water produced is lost due to leakage within our water mains and within customer properties and is undertaking a national investment programme of works to reduce leakage and improve Ireland's water supply. Reducing leakage will continue to be a key priority for Irish Water in the coming years.

### Course aims

This course will provide an introduction to leakage detection, control and management and the relevant technologies used to assist in the process. Trunk main and distribution leakage detection techniques where there is limited metering will also be covered in this course along with an introduction to asset planning and District Meter Areas (DMA) design.

### Programme

1. Introduction to Asset Management
2. Introduction to DMA Design and Implementation
3. Basic Active Leakage Control Techniques
4. Driving Down Leakage: Localise, Locate & Pinpoint

### Learning objectives

At the end of this course participants should be able to:

- Demonstrate an understanding of leakage control processes and the technologies used in leakage detection activities
- Analyse the causes of pipe condition failure and understand how pressure can cause breakages within the distribution system
- Describe how DMA's help to control and manage the distribution system
- Develop the necessary skills and knowledge required to identify different types of leaks
- Explain how the different technologies work and when is best to use them
- Define the terminology used in Leakage Control Practices

### Trainer's profile

**Stuart Hamilton CEnv, CMgr, FCIWEM, FIWA, FCIPE, MCFI**

Stuart has over 35 years of experience in water loss control and water management. Stuart is the managing director of Hydro Tec, a leading water management organisation providing consultancy services to water utilities and private business sectors globally. He is an expert in advanced water management control approaches and specialist techniques in acoustic technology. He works in both small and large diameter networks applying acoustic technological methods in intermittent supply, low pressure and high pressure systems. Stuart has managed large water loss management projects and resources throughout the world in 30 different countries.