



# LEGIONELLA Awareness Training

*Legionella* is a naturally occurring bacteria that can enter cooling tower and other plant systems through soil or water dispersion. *Legionella* can rapidly reproduce in a warm and moist environment, particularly in the presence of nutrients (rust, algae, organic) and sunlight, which are often present in cooling tower systems. *Legionella* can then escape the system within aerosols (water droplets) and enter a person's respiratory system where it can cause Legionnaire's disease (severe pneumonia) in immune compromised or susceptible individuals.

As part of its initiative to reduce the incidence of Legionnaires disease, the Victorian Government has continued to develop stricter regulations for the building, registration, maintenance, water treatment and microbiological testing of cooling tower systems. As a leading water treatment service provider, Hydro Flow offers clear and informative Legionella Awareness Training at your premises to assist your company in understanding these complex and often overwhelming legislative requirements relating to cooling tower systems.

## KEY TOPICS COVERED

- ❖ Habitats of Legionella
- ❖ Legionnaire's disease
- ❖ Cooling tower operation
- ❖ The Victorian Public Health and Wellbeing Act and Regulations
- ❖ The framework set up by the Public Health and Wellbeing Regulations
- ❖ The role of Australian Standard 3666
- ❖ The minimum legal responsibilities
- ❖ Cooling tower registration process and associated documentation
- ❖ Risk Management Plans and the risk assessment process
- ❖ The relationship between Service Programs and Risk Management Plans
- ❖ Response procedures
- ❖ Basic Audit principles and associated tolerances

We continue to offer comprehensive water treatment and servicing programs, project management and maintenance expertise, detailed Legionella Risk Management Plans, annual RMP Reviews and Audits for your convenience and peace of mind.

MELBOURNE & SOUTH VIC  
Mike Lenton  
GENERAL MANAGER  
Hydro Flow Pty Ltd  
0412 933 291  
mlenton@hydroflow.com.au

SHEPPARTON & MID-NORTH VIC  
Chris Pearson  
REGIONAL MANAGER  
Hydro Flow Pty Ltd  
0433 079 508  
cpearson@hydroflow.com.au

**1300 793 121**

[www.hydroflow.com.au](http://www.hydroflow.com.au)



As part of reducing the risk of Legionnaires disease every Cooling Tower System must have a Risk Management Plan (RMP) which outlines the risks associated with its operation.

*Hydro Flow provides a comprehensive and detailed RMP involving:*

1. Onsite assessment of the cooling tower, system pipework to plant, components and water treatment program.
2. Liaising with the Customer to determine operational and structural information of the system.
3. Detailed write-up assessing the following 5 Critical Risk Categories:

❖ **Stagnant Water**

Involves the identification of dead legs; sections of pipework that have minimal to no water circulation, and plant operating intermittently/seasonally.

❖ **Nutrient Growth**

Addresses contamination sources to the system and how to manage them.

❖ **Poor Water Quality**

Investigates the water treatment program and its effectiveness in providing microbial control.

❖ **Deficiencies in the Cooling Tower System**

Looks at the age and condition of the system components, in particular the drift eliminators and their compliance with current standards.

❖ **Location and Access**

Assesses the nature of the surrounding population with emphasis on health and aged care facilities. Access to cooling tower components for cleaning and maintenance is also reviewed.

+ **System Schematic**

+ **Detailed photographs**

+ **HCC Response Plan**

+ **Legionella Response Plan**

4. A meeting to go through each element of the RMP in detail to ensure your understanding.
5. Signing off.

*Hydro Flow will help you identify and understand the risks so that you can manage them effectively*

