



# Legionella Training Cooling Systems Operative



## Course Aim

This course provides delegates with a comprehensive understanding of their legal responsibilities and compliance requirements as outlined in Legionnaires' Disease: Technical Guidance Part 1 – The Control of Legionella Bacteria in Evaporative Cooling Systems. It is designed to equip delegates with the knowledge needed to ensure safe and compliant management of evaporative cooling systems in line with current legislation and best practice.



## Certification

The assessment will be a multiple-choice test at the end of the session. Upon successful completion of the course, delegates will receive a City and Guilds Accredited Programme Certificate that will need renewing once 2 years have passed.



## Who Should Attend?

This course is intended for operatives and individuals with health and safety responsibilities for others in the workplace. It provides the knowledge and practical guidance needed to support compliance with legal duties related to legionella control.

### Pre requisite:

All delegates must present a current Legionella Awareness Certificate (or recognised equivalent) to be eligible for this training.



## Course Duration

This is a 1 day course.



## Maximum Delegates

Maximum attendees: 20 delegates.

Safety / Value / Availability / Support



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## Agenda

- The NCTEC regulations and the legal requirement for compliance.
- The primary function of cooling towers and the underpinning scientific principle.
- Factors that impact the efficiency of the cooling tower to reject heat.
- Key parameters used to evaluate cooling tower operation, in particular the importance of establishing the correct cycles of concentration.
- Requirements to maintain the correct design flow rate and how it is monitored.
- Maintain operational efficiency and possible remedial works.
- Installation of appropriate backflow protection.
- Categorisation of cooling towers.
- NCTEC regulations with regards to adiabatic or hybrid systems.
- Materials used in cooling tower construction and their applications.
- Comprehend the primary treatment concerns and their impact on the system.
- Inspection, its frequency, and requirements.
- Methods used for biological monitoring.
- Water quality parameters to maintain operational efficiency.
- Scientific processes used to measure the potential effectiveness of biocides.
- Chemical and non-chemical methods of control.
- Safe system of work prior to and during the disinfection process.
- Method for calculating the correct amount of Chlorine (Sodium Hypochlorite) in a given system, allowing for pH correction.
- Disinfection of a cooling towers.
- Maintenance of records of control.

Safety / Value / Availability / Support