



LEGIONELLA TRAINING COOLING SYSTEMS OPERATIVE

ON-SITE

3 HOURS LIVE CLASSROOM

1 DAY OPEN CLASSROOM

TRAINING OVERVIEW

This course will cover the required learning objectives for staff to understand and comply with Legionnaires' disease: Technical Guidance Part1: The control of legionella bacteria in evaporative cooling systems. This course is for operatives and those with health and safety responsibilities for others, to help them comply with their legal duties.

COURSE AIMS

- The NCTEC regulations and the legal requirement for compliance.
- The primary function of cooling towers and the underpinning scientific principal.
- Factors that impact upon 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 process used to measure the potential effectiveness of biocides.
- Chemical and Non-chemical methods of control.
- Safe system of work prior and during disinfection process

HXT-W09

SOLIHULL

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Or speak to a member of our sales team



- 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.

DURATION

1-day course classroom based commencing at 10:00 hours, ending at no later than 16:30 hours, with a 60-minute lunch break. 3 hours live virtual classroom commencing at either 9:30-12:30 or 13:30-16:30.

LEARNING OUTCOMES

Develop or reinforce knowledge of:

1. The learner will leave with an understanding of statutory legislation relating to the course subject. The learner will gain knowledge of non-statutory legislation relating to the course subject
Delegates on this course will gain an understanding of the preparation requirements of the risk assessment process
Learners will gain an understanding of the legionella bacteria as a pathogen
The learner will leave with an understanding of statutory legislation relating to the course subject.
2. The learner will gain knowledge of non-statutory legislation relating to the course subject
Delegates on this course will gain an understanding of the preparation requirements of the risk assessment process
Learners will gain an understanding of the legionella bacteria as a pathogen
The learner will leave with an understanding of statutory legislation relating to the course subject.
3. The learner will gain an understanding of the requirements relating to the site survey of hot and cold water supply systems
4. Delegates will receive an understanding of the issues surrounding hot and cold-water systems within residential accommodation
5. Learners will also gain knowledge of temperature guidance for hot and cold water supply systems.
6. Delegates will leave with an understanding of biological sampling techniques
Learners will gain an understanding of POU filtration techniques
The learner will get an understanding of water safety groups

| Training Content to be covered (The learner will) | Assessment Criteria (The learner can) |
|---|--|
| 1. Know the HSE guidance documents for cooling systems | <ul style="list-style-type: none"> • Identify the HSE document that gives guidance on cooling systems |
| 2. Know what is in a written/control scheme and how to implement it for cooling systems | <ul style="list-style-type: none"> • Identify the frequency of dip slide sampling in cooling systems • Identify some checks and frequencies in the control of cooling systems • Identify the actions required if control is lost in a cooling system. • Identify where to take samples from a cooling system |



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|---|---|
| 3. Know the different parts of a cooling systems and their function | <ul style="list-style-type: none">Identify what the drift reducers function isIdentify what the fill packs function is |
| 4. Know the Water Regulations in relation to legionella control for cooling systems | <ul style="list-style-type: none">Identify what fluid category and risk a cooling system water carries |
| 5. Know the importance of the location of cooling systems | <ul style="list-style-type: none">Identify how far away air inlets and opening windows should be from a cooling system |
| 6. Know the measurement initials connected with cooling systems | <ul style="list-style-type: none">Identify what TDS stands forIdentify what TVC stands for |
| 7. Know how to interpret microbial sample results for a cooling system | <ul style="list-style-type: none">Identify when legionella samples are recommended to be taken from cooling systemsIdentify when TVC samples are recommended to be taken from a cooling systemIdentify the accepted limit for TVC samples |
| 8. Know what the water treatment program is for a cooling system | <ul style="list-style-type: none">Identify what the water treatment program does |
| 9. Know the processes of cleaning and disinfection for cooling systems | <ul style="list-style-type: none">Identify the dose and time for disinfection of cooling systemsIdentify the sequence for cleaning and disinfection of cooling systems |

WHAT CERTIFICATION WILL YOU ACHIEVE?

On successfully completing the Legionella Training: Cooling Systems, you will receive a City and Guilds Accredited Programme Certificate. This will need to be renewed every 2 years.

HOW IS THIS COURSE DELIVERED?

Learning will be delivered in a classroom environment in the form of trainer explanation, group discussions, videos, practical classroom exercises and will be broken up with breakout sessions. Assessment of learning will be a multiple choice delivered by paper. Also available as a live virtual classroom course.

DO YOU NEED TO BRING ANYTHING WITH YOU?

- Photographic ID
- The course trainer will provide everything else for the course



RELATED COURSES

Delegates undertaking this course may also be interested in the following City & Guilds and IOSH accredited training courses:



IOSH-WS

ON-SITE LIVE WEB-CONFERENCE
OPEN CLASSROOM

IOSH WORKING SAFELY
1 Day (Open Classroom)
1 Day (Live Web-Conference)



HXT-W02

ON-SITE LIVE WEB-CONFERENCE
OPEN CLASSROOM

LEGIONELLA RESPONSIBLE PERSON
1 Day (Open Classroom)
3.5 Hours (Live Web-Conference -
Session 1 pre add-on for W03)



HXT-W03

ON-SITE LIVE WEB-CONFERENCE
OPEN CLASSROOM

**LEGIONELLA RESPONSIBLE PERSON INC.
COOLING SYSTEMS**
2 Days (Open Classroom)
6 Hours (Live Web-Conference -
add-on for W02)



HXT-W04

ON-SITE LIVE WEB-CONFERENCE
OPEN CLASSROOM

LEGIONELLA OPERATIVE
1 Day (Open Classroom)
4 Hours (Live Web-Conference)



HXT-W05

ON-SITE LIVE WEB-CONFERENCE
OPEN CLASSROOM

**MANAGEMENT OF WATER SYSTEMS IN
HEALTHCARE ESTATES HTM**
2 Days (Open Classroom)
6 Hours (Live Web-Conference)



HXT-W12

ON-SITE LIVE WEB-CONFERENCE
OPEN CLASSROOM

DISINFECTION OF DOMESTIC SYSTEMS
1 Day (Open Classroom)
3 Hours (Live Web-Conference)