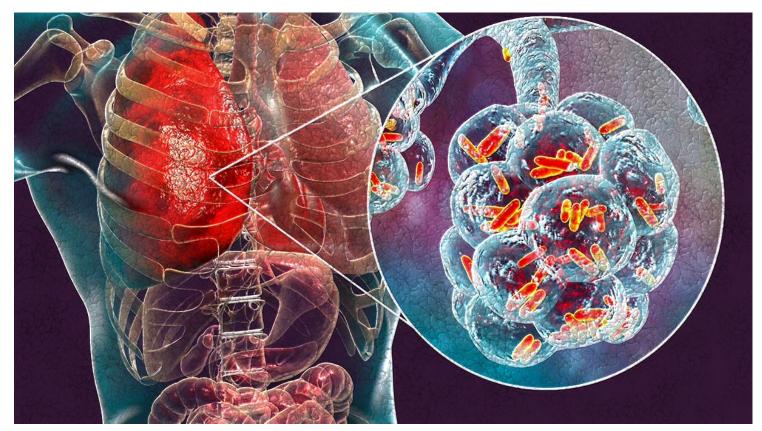
### جلف تيست للاستشارات السلامة GULF TEST SAFETY CONSULTANCIES





# Legionella Control Risk Assessment and Audit

Safeguarding People
Protecting Your Reputation
Ensuring Legal Compliance





#### What is Legionnaire's Disease?

Legionnaires' disease causes inflammation of the lungs. It is a type of pneumonia of greater severity than normal. Legionella bacteria are responsible for triggering the infection. The same bacteria can also cause Pontiac fever. This is a milder condition. It does not progress to pneumonia and is usually self-limiting. Some people infected by Legionella bacteria may assume they simply have flu.

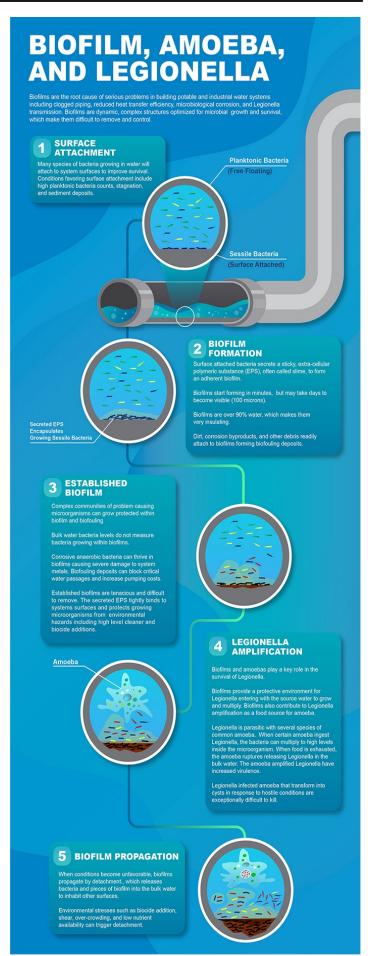
#### How does a person get Legionnaires disease?

The germ which causes Legionnaires' is a bacterium called Legionella pneumophila. People catch it by inhaling small droplets of water suspended in the air which contain the Legionella bacterium. However, most people who are exposed to legionella do not become ill.

# Legionnaires' disease symptoms: What should you expect?

The symptoms caused by the disease are like those experienced when someone has flu. Muscle aches, headaches, fever, and feeling tired are all common. They typically occur between two and 10 days after exposure to Legionella bacteria. As the condition progresses, other symptoms may appear. These are more indicative of pneumonia. Phlegm may be green. Shortness of breath may occur. Chest pain and confusion can also be experienced.

If any such symptoms appear, you should seek immediate medical help. They do not always mean you have Legionnaires' disease, but they should be checked out. If the disease is diagnosed, prompt treatment will be given to combat it.







#### Is there risk of Legionella in my workplace?

The health risks associated with Legionella bacteria are significantly heightened in areas where water is stored or recirculated, where the water temperature is between 20 and 45 Degree C, where there is the possibility of breathable

water droplets

#### Which premises are at risk?

Hotels

Clubs

Hospitals

- Residential Complexes
- Schools / Colleges
- Malls

# What does Legionella Risk Assessment Cover?

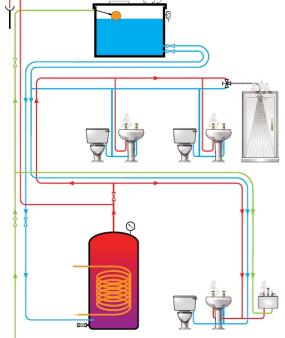
- Site Visit, Plant related risk assessments including operational planning and controls in different water features
- Overview of the composition of water in the system
- Thorough evaluation of records and analysis
- Independent assessment of the monitoring and testing regime in place
- The effectiveness of any legionella precautions currently being applied

#### Why choose Gulf Test?

We will help you to assess and manage these risks and ensure that you comply with your legal requirements.

- **Full compliance guaranteed -** Our Legionella risk assessments are completed in strict compliance with ACoP L8, OSHAD Code of Practice, Dubai Municipality Technical Guidelines and BS8580-1:2019
- **Comprehensive reporting -** Our reports are designed to provide you with the information you need in a format thats precise and easy to understand.
- Accredited Lab All of our water analysis is conducted at ENAS / EIAC accredited laboratories. You can rely on our analytical services to be accurate and prompt.
- **Competent Team -** We have been providing legionella risk assessments and water hygiene services in UAE; our team of specialist assessors are vastly experienced, professional and fully qualified in their respective fields.









#### **Demonstration of Competency**

Gulf Test Safety Consultancies is a registered **Grade A Consultants** with the OSHAD Centre and are competent to provide Legionella Services under following main categories:-

- 1. Legionella Risk Assessment
- 2. Legionella Training Services
- 3. Legionella Auditing Services
- 4. Legionella Consultancy Services







#### **UAE Legal Aspects of Legionella**

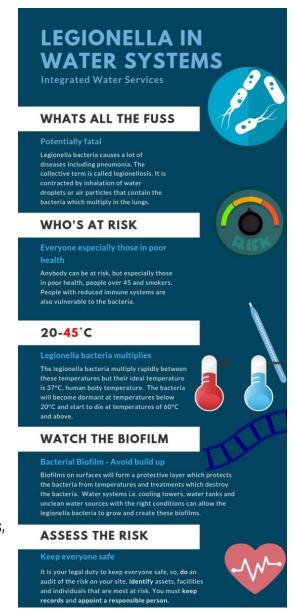
The health risks associated with Legionella bacteria are significantly heightened in areas where water is stored or recirculated, where the water temperature is between 20 and 45 Degree C, where there is the possibility of breathable water droplets

Under UAE Health and Safety Law, business owners, property managers and landlords are legally required to consider the legionella risk in their properties or businesses.

In Abu Dhabi, the general requirements for Legionella are specified in OSHAD-SF – Codes of Practice CoP 12.0 – Prevention and Control of Legionnaires Disease – Version 3.1 – 18th June 2017. This Code of Practice (CoP) applies to all duty holders within the Emirate of Abu Dhabi.

The requirements set out within this CoP are intended to specify the general requirements for prevention and control of legionnaire's disease. This CoP applies to all duty holders and places of business within the Emirate of Abu Dhabi that have equipment that uses, stores, or disseminates warm water.

This includes, but is not limited to, swimming pools, hot tubs, heated spas, cooling towers, hot water tanks, large air conditioning systems, water treatment facilities, metalworking systems that use water, equipment for manufacture of plastic parts using injection molding, emergency water systems (to include safety showers, eye wash stations, and fire sprinkler systems), artificial fountains/waterfalls, water features, and other similar equipment that use and/or stores large amounts of water.



The first requirement of this CoP is that Duty Holders who uses, stores or disseminates hot water systems shall perform an annual "suitable and sufficient" health risk assessment of the building. This risk assessment should be undertaken with due consideration to the guidelines detailed in BS8580:2010, ASHRAE, ACOP L8 Requirements. The risk assessment must include

- An assessment of the risk to health, and identify measures to be taken
- Consideration of replacement/substitution to prevent the risk
- Where prevention is not reasonably practicable, engineering measures to control exposure; e.g. drift eliminators
- · Other measures to reduce the risk; e.g.: water treatment
- A management regime to ensure continual compliance and regular reviews





#### **Priniciple Legislation**

The principal legislation and guidance relating to duties to manage risks from exposure to legionella in work places comprise

- OSHAD-SF Codes of Practice CoP 12.0 Prevention and Control of Legionnaires Disease Version
   3.1
- Health and Safety at Work etc Act 1974
- The Control of Substances Hazardous to Health Regulations 2002 (as amended)
- Management of Health and Safety at Work Regulations 1999
- Notification of Cooling Towers/Evaporative Condensers Regulations 1992
- Approved Code of Practice L8 (Fourth edition) Legionnaires' disease: the control of legionella bacteria in water systems
- Legionnaires' disease Technical Guidance HSG274 Parts 1, 2 and 3
- European Legionnaires' Disease Surveillance Network (ELDSNet) Technical Document-14 Point Plan
- Managing for Health and Safety HSG65
- World Health Organization (WHO) Legionella and the prevention of Legionellosis (2007)





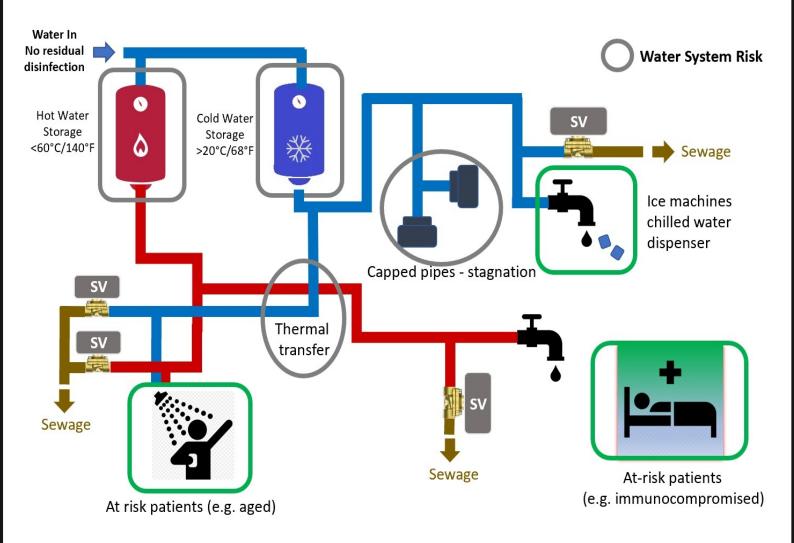


#### Legionella Risk Assessment

Legionellosis is a collective term for diseases caused by legionella bacteria including the most serious Legionnaires' disease, as well as the similar but less serious conditions of Pontiac fever and Lochgoilhead fever. Legionnaires' disease is a potentially fatal form of pneumonia and everyone is susceptible to infection.

A Legionella risk assessment survey is a systematic examination of the potential risks presented by engineered water systems, and seeks to identify and assess the risks of exposure to Legionella bacteria from work activities and water systems.

Whilst identifying the risk to your water systems, our assessor will check; the temperature of each water outlet, for stagnated water and dead legs and for any other potential threats. They will then supply you with your own copy of the risk assessment.







#### **Legionella Risk Assessment Benefits**

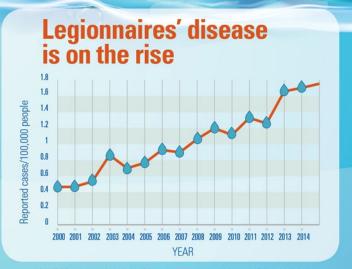
Legionella bacteria is a waterborne pathogen that can develop in unmaintained water systems. This water is most likely pumped through out the building to various outlets and could cause harm to the residents. If these water droplets are inhaled, i.e. through showers, spray taps and humidifiers, then the recipients could be exposed to Legionnaires' disease – fatal form of pneumonia.

The law is clear that if you are a landlord and rent out your property (or even a room within your own home) then you have legal responsibilities to ensure the health and safety of your tenant by keeping the property safe and free from health hazards. A simple assessment may show that there are no real risks and are being properly managed and no further action is needed. It is important to review the assessment in case anything changes in the system.

The practical and proportionate application of health and safety law to landlords of domestic rental properties is that whilst there is a duty to assess the risk from exposure to Legionella to ensure the safety of their tenants

A Legionella risk assessment will determine the likeliness of Legionella bacteria forming in your water system and will identify the steps needed to reduce that risk. Not only is it imperative that a risk assessment is carried out, however, it is also in the best interest of your customers, clients, employees and yourselves.

#### A Legionella water management program consists of: Establishing ways to intervene when control Establishing a water management limits are not met. program team. Making sure the Describing the building program is running as water systems using words and diagrams. designed and is effective. **Documenting and** Identifying areas where *Legionella* could grow and spread. communicating all the activities **Deciding where control** measures should be applied and how to monitor them. www.cdc.gov/legionella/WMPtoolkit SOURCE: ASHRAE 188: Legionellosis: Risk Management for Building Water Systems



June 26, 2015.





#### Legionella Risk Assessment Sample Certificate





Certificate of Legionella Hssessment

This certificate has been awarded to

#### LE MERIDIEN ABU NYASI

PO BOX 46066 Tourist Club Area, Ab Thasi, UAE

In recognition of the organization's Legion and Manage. A Plan and successful completion

## Legionella Risk Assessment

In accordance with the following assessment criteria

OSHAD-SF Cor 2.0 - Sevention and Control of Legionnaires Disease v3.1,
HCLUK Approved Side of Practice and guidance on regulations L8 and
in recognit. To the applicable Regulatory and International Requirements and Standards
pertinent to the Legionella Control

The scope covered under this risk assessment includes

Not and Cold Water Systems, Laboratory Analysis and assessment of Water Quality and Assessment of Water and Legionella Control Plan

Certificate No.: GTS-EE-5443-QTN-5443-21 Date of Reassessment: 07-03-2023 Risk Assessor: Noor Muddassir Khan

Registration No: 2002202

Date of Issue: 07-03-2021 Issue No. 01 Certification Head



Gulf Test Safety Consultancies P.O.Box: 133143, Abu Dhabi, UAE

www.gulftest.org

This is a certificate authorised for issue by Gulf Test Safety Consultancies against defined criteria and in cognisance of Legionella Risk Assessment Criteria of OSHAD-SF Cop 12.0 Prevention and Control of Legionnaires Disease v3.1, HSE UK LB Legionnaires' disease and Legionnaires' disease Technical Guidance HSG274 Parts 1, 2 and 3. The control of legionella bacteria in water systems Approved Code of Practice and guidance. This certificate is only valid while the organization complies with the applicable local and international code of practices related to the control of legionnaires disease and legionella within the water systems.