

Overview

This unit addresses the competence and knowledge needed to carry out legionella risk assessments and reviews on water systems.

This unit deals with the following basic process:

- 1 confirming the scope of the assessment
- 2 risk assessment review
- 3 preparation for assessment/review
- 4 structure of assessment/review
- 5 review of current conditions
- 6 assessment of risk
- 7 content of report

Previous Version

None

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Carrying out legionella risk assessments

Performance criteria

- You must be able to:*
- P1 work safely at all times, complying with health and safety procedures in line with company policies
 - P2 define the scope of the risk assessment/review
 - P3 identify risk systems to be assessed
 - P4 recognise your own limitations and seek expert advice where appropriate
 - P5 prepare to carry out the risk assessment/review
 - P6 carry out a risk assessment in accordance with regulatory requirements and company operating procedures
 - P7 evaluate risk for each system in accordance with company operating procedures
 - P8 recommend specific corrective actions in accordance with company operating procedures
 - P9 recommend specific control measures in accordance with company operating procedures
 - P10 evaluate corrective actions & control measures produced in accordance with company operating procedures
 - P11 produce risk assessment in accordance with company operating procedures
 - P12 provide the risk assessment to the relevant people

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Knowledge and understanding

You need to know and understand:

- K1 what your personal responsibilities with regard to health and safety in the working area are
- K2 what your legal responsibility for your own health and safety, and the health and safety of others is
- K3 what working practices ensure that the working environment is conducive to good health
- K4 what the approved codes of practice/working practices are and why it is important to follow them
- K5 how and when to complete a work task risk assessment
- K6 when specific site requirements are in place and what to do to comply with them
- K7 which water systems should be risk assessed
- K8 which water systems provide a reasonably foreseeable risk of exposure to legionella bacteria and when
- K9 your own limitations of competence with regard to knowledge and experience
- K10 the requirements regarding schematic diagrams and asset registers
- K11 what information from the risk assessment should be included in the written scheme
- K12 where to find expert advice & guidance
- K13 how to complete a legionella risk assessment
- K14 what preparatory actions are required
- K15 what resources are required for a risk assessment to take place
- K16 what information sources are available
- K17 how to deal with matters of immediate concern
- K18 the required content of a written scheme
- K19 emergency procedures required in the event of legionella outbreak
- K20 management structure requirements for legionella control
- K21 how to review maintenance, monitoring and inspection records
- K22 control measures that can be applied to the water system involved
- K23 the treatment process applicable to the water system involved
- K24 monitoring efficacy of treatment processes
- K25 sampling and sampling standards
- K26 what records are required for the water system involved

- K27 how to review & evaluate previous risk assessments/reviews
- K28 the required content of legionella risk assessments/reviews
- K29 why schematic diagrams are required and when
- K30 the requirements of schematic diagrams content
- K31 how to assess validity of schematic diagrams
- K32 how to review & assess training & competence assessment records
- K33 how to carry out physical condition checks on the water system involved
- K34 the content of physical condition checks
- K35 the impact of materials and components on risk
- K36 the impact of system design and operation on risk
- K37 how to evaluate risk of exposure to legionella bacteria
- K38 possible corrective actions that may be employed for the water system involved
- K39 how to recommend specific corrective actions
- K40 how to eliminate or reduce risk by implementing corrective actions
- K41 how to recommend specific control measures
- K42 how to record the evaluations, reviews & condition checks
- K43 how to carry out a risk assessment/review
- K44 what to do with the results of the risk assessment/review
- K45 how to identify the relevant people

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Additional Information

Glossary

Company operating procedures

Includes company requirements, instructions and method statements

Risk systems

Includes all systems within the scope and within own limitations

Resources

Includes materials, access equipment, PPE, test equipment, sample requirements

Working practices

Includes permit to work, confined space working, working at heights, manual handling, PPE, COSHH etc

Treatment process

Includes chemical, physical, mechanical, environmental processes

Prepare

Includes all resources, survey outputs, records, sample results, test results required to complete the assessment

Relevant people

As defined in the programme design, log book, company procedures

Regulatory requirements

Includes relevant health, safety and environmental regulations, COSHH, Codes of Practice, British, European and International standards, site procedures

Information sources

Includes guidelines, standards, specifications, chemical data

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Control measures

Includes procedures, sampling, testing, monitoring, recording, training, management systems

Corrective actions

Includes physical, mechanical, chemical, management actions

Evaluate risk

Includes mathematical models, extraordinary factors, subjective opinion

Limitations

Defines own competence to assess systems within own knowledge and experience

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