

### Overview

This unit is for those with responsibility for creating water system diagrams for:

- 1 legionella risk assessments
- 2 equipment installation
- 3 engineering remedial works

including:

- 1 system surveys
- 2 mapping pipe routes
- 3 identifying system components
- 4 diagram production

During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices as they apply to you.

### Previous Version

None

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## Create water system diagrams

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### 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 establish the purpose for completing the system diagram
  - P3 establish the production format of the system diagram
  - P4 ensure that all resources are ready and available
  - P5 carry out survey in accordance with company operating procedures
  - P6 record findings in accordance with company operating procedures
  - P7 leave the work place as tidy as it was found
  - P8 produce system diagram(s) in accordance with regulations and guidelines and within an agreed timescale
  - P9 provide system diagrams in accordance with agreed format, presentation method and company procedures
  - P10 provide system diagrams to the relevant person

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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 who has requested the system diagram and why
- K8 the format and presentation method required
- K9 the presentation methods available to you
- K10 the survey programme and company procedures to be followed
- K11 what survey procedures are available
- K12 which regulations & guidelines are relevant to the system diagram
- K13 what to do if there is no defined survey procedure
- K14 what resources are required for the survey
- K15 what access equipment can be selected and what is required
- K16 how to identify defective equipment and the action to take
- K17 what the company operating procedures are for recording survey data
- K18 how to produce the system diagram in agreed format and presentation method
- K19 why it is important to leave the work place tidy
- K20 who the relevant person(s) are
- K21 how to get the information to the relevant person(s)

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### Additional Information

#### Glossary

##### **Regulations and guidelines**

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

##### **Company operating procedure**

Includes company requirements, instructions and method statements

##### **System diagram**

As defined by the recipient or by regulatory standard

##### **Health and safety**

PPE, access equipment, asbestos

Format Drawing quality required including schematic, draft, P&ID, plan, engineering

##### **Resources**

Personal protective equipment, company documentation, identification, access equipment, contacts

##### **Presentation method**

Hand drawn, computer generated, drawing software, hard/soft copy

##### **Relevant person**

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

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**Version number** 1

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**Status** Original

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**Relevant occupations** Engineering and manufacturing technologies; Manufacturing technologies; Process, Plant and Machine Operatives; Process Operatives

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**Suite** Water Treatment Management

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