

# COGWT25

## Monitor water system cleaning operations



### Overview

This unit is for those involved in:

- 1 monitoring water treatment programme
- 2 comparing conditions against control parameters
- 3 progressing corrective actions
- 4 identifying the cause of faults and errors

### Previous Version

None

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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 identify the resources required to monitor the cleaning operation
  - P3 follow a programme of specified tests to assess the efficacy of the treatment programme
  - P4 convert the test result into the control factor in accordance with company operating procedures
  - P5 compare the control factor against the specified control limits for the treatment programme
  - P6 identify faults and errors in the water treatment programme in accordance with company operating procedures
  - P7 identify which corrective actions are required
  - P8 progress a programme of corrective actions in accordance with company operating procedures
  - P9 record information and write report using company documentation in accordance with company operating procedures
  - P10 provide the documentation 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 the different types of water system cleaning operations
- K8 problems encountered in the systems
- K9 water chemistry and microbiology applicable to water system cleaning operations
- K10 what relevant standards and guidelines apply
- K11 company operating procedures relating to monitoring water system cleaning operations
- K12 where to obtain the test programme
- K13 how to follow a testing programme
- K14 how to convert test results into control factors
- K15 how to compare control factors against control limits
- K16 the range of potential corrective actions that may be employed
- K17 the corrective actions that can be taken within the limits of your responsibility
- K18 how to progress corrective actions outside of the limits of your responsibility
- K19 who to report the information to
- K20 what documentation to use
- K21 how to complete the documentation
- K22 who the relevant people are
- K23 how to provide the documentation

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### Additional Information

#### Glossary

##### **Water system cleaning operations**

Includes pre-commission, flushing, chemical cleaning, disinfection, sterilization, degreasing

##### **Water treatment programme**

Can include for any water system: chemical and non chemical processes, monitoring and inspection, sampling, equipment provision and servicing, legionella risk assessment, cleaning operations, remedial engineering works, other products and services associated with water systems

##### **Resources**

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

##### **Control factor**

Physical, engineering, chemical, microbiological, product

##### **Tests**

Includes chemical, microbiological, mechanical, physical

##### **Standards 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

##### **Documentation**

Includes analysis/report sheets, log book records

##### **Relevant people**

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

### **Working practices**

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

### **Problems encountered**

Scale, corrosion, fouling, microbiological, chemical, mechanical, environmental

### **Water chemistry**

The chemistry involved with the provision of water system cleaning operations and processes

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**Suite** Water Treatment Management

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