

# COGWT8

## Apply a water treatment programme for water system cleaning operations



### Overview

This unit is for those involved in:

- 1 producing water treatment programme for water system cleaning operations
- 2 producing control measures
- 3 performance monitoring
- 4 identifying and progressing corrective actions
- 5 investigating 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 produce a water treatment programme to meet system requirements and regulatory requirements utilising design models
  - P3 produce a programme of control measures to maintain the efficacy of the treatment programme in accordance with company operating procedures
  - P4 identify and assess system conditions relevant to the water treatment programme
  - P5 assess the performance of the treatment programme for potable water systems in accordance with company operating procedures
  - P6 investigate faults and errors in the system in accordance with company operating procedures
  - P7 identify and progress a programme of corrective actions for potable water systems in accordance with company operating procedures
  - P8 record information and write report using company documentation in accordance with company operating procedures
  - P9 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 potable water systems
- K8 problems encountered in the systems
- K9 water chemistry and microbiology applicable to potable water systems
- K10 what regulatory requirements apply
- K11 company operating procedures
- K12 which treatment methods are available and can be used
- K13 what control measures can be used for the water treatment programme
- K14 what system conditions are relevant to the water treatment programme
- K15 how to apply your company's treatment processes
- K16 how to interpret schematic diagrams
- K17 how to interpret survey outputs
- K18 efficacy of the treatment programme and regulatory compliance
- K19 how to follow a performance monitoring programme
- K20 which methods for performance monitoring are available
- K21 what to do if performance is unsatisfactory
- K22 what corrective actions you can take in accordance with company operating procedures
- K23 who to report the information to
- K24 the range of potential corrective actions that may be employed
- K25 which corrective action to follow
- K26 how to provide the documentation

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K27 what documentation to use

K28 how to complete the documentation

K29 who the relevant people are

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### Additional Information

#### Glossary

##### **Potable water systems**

Includes drinking water, reservoirs, boreholes, wells

##### **Water treatment programmes**

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

##### **Regulatory requirements**

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

##### **Methods of treatment**

Microbiological, chemical, mechanical, environmental, monitoring, sampling

##### **Working practices**

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

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### **Problems encountered**

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

### **System conditions**

Physical, engineering, chemical, microbiological conditions

### **Control measures**

Physical, engineering, chemical, microbiological, monitoring, inspection

### **Water chemistry**

The chemistry involved with the provision, use and treatment of potable water systems

### **Design model**

Products, specification, parameters, limitations, installation requirements, service standards including company requirements, instructions, method statements, codes of practice, British, European and International standards

### **Survey outputs**

Risk assessment, sample and test results, survey forms, mechanical specifications, system objective

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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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**Key words** Water; treatment; system; cleaning; programme