

### Overview

This unit is for those required to adjust dosing and control equipment using prescribed standard operating procedures.

The equipment to be used and the conditions necessary for the specific adjustments to be performed are defined in written instructions. Adjustment is limited to carrying out the defined procedure and recording the result. Any deviations from the standard operating procedures are referred to others for action.

This unit deals with the following:

- 1 preparing to adjust the equipment
- 2 checking equipment and conditions
- 3 identifying the dosing and control equipment
- 4 carrying out adjustment safely
- 5 recording adjustments

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

# COGWT1

## Adjust dosing and control equipment

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### Performance criteria

- You must be able to:*
- P1 work safely at all times, complying with health and safety regulations and guidelines in line with company policies
  - P2 identify the equipment in use
  - P3 ensure that you have all resources ready and available
  - P4 check that equipment is setup as original programme design
  - P5 identify control parameters for the treatment programme
  - P6 ensure equipment is working correctly to programme design
  - P7 dose any chemical required to the system by the method appropriate to the equipment
  - P8 test system for criteria appropriate to the programme
  - P9 compare results to the required parameters
  - P10 adjust equipment in accordance with company operating procedures
  - P11 identify malfunctioning equipment and deal with it in accordance with company operating procedures
  - P12 identify where it is not possible to achieve required parameters
  - P13 report any actions you have taken to the relevant people in accordance with company operating procedures
  - P14 restore work area to original condition

# COGWT1

## Adjust dosing and control equipment

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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 equipment is installed
- K8 what resources are required
- K9 how and where to find the original programme design
- K10 where and how to identify control parameters
- K11 how to verify equipment is working within defined parameters
- K12 which chemicals are being dosed
- K13 which method of dosing is appropriate for the equipment
- K14 which tests can be used
- K15 how to carry out the test
- K16 which parameters apply
- K17 the company operating procedures for equipment
- K18 how to adjust equipment
- K19 what defines malfunctioning equipment and what to do
- K20 who the relevant people are.
- K21 why it is important to leave the work place tidy

# COGWT1

## Adjust dosing and control equipment

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### Additional Information

#### Glossary

##### **Adjust**

Includes adjustment of pumps and controls, cleaning of sensors and probes, removal of air locks, cleaning of supply and delivery valves, pump priming

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

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

##### **Resources**

Includes equipment manuals, standard operating procedures, tools, test equipment

##### **Equipment**

Includes dosing pumps, controllers, valves, probes, sensors

##### **Company operating procedures**

Includes company requirements, instructions and method statements

##### **Programme design**

The programme of water treatment for the specific system including chemical, microbiological, mechanical, physical

##### **Control parameters**

Physical, engineering, chemical, microbiological, monitoring, inspection

##### **Tests**

Includes chemical, microbiological, mechanical, physical

# COGWT1

## Adjust dosing and control equipment

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**Developed by** Cogent SSC

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**Version number** 1

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**Status** Original

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**Originating organisation** Cogent SSC

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**Original URN** COGWT1

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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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