

### Overview

This unit is for those with responsibility for dosing chemicals to water systems using prescribed company operating procedures.

- 1 this unit deals with the following:
- 2 preparation for dosing chemicals
- 3 the methods of dosing chemicals
- 4 handling chemicals in a safe manner
- 5 following company operating procedures for dosing chemicals to a water system

### Previous Version

None

# COGWT17

## Dose chemicals to water systems

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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 chemicals to be dosed from the programme design
  - P3 identify the method of dosing the chemicals from the programme design
  - P4 ensure resources are acquired to complete the programme of dosing
  - P5 ensure any dosing equipment is in operating condition
  - P6 identify any equipment not operating to specified criteria and follow company procedures
  - P7 dose any chemicals required to the system in accordance with the company operating procedure
  - P8 clean any equipment used to dose the chemicals
  - P9 complete company documentation in accordance with company procedure
  - P10 provide the documentation to the relevant people
  - P11 ensure workplace is left as originally found

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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 what the company operating procedures are
- K8 how to ensure a method statement has been completed and if not what should be done
- K9 how to handle chemicals
- K10 how to deal with chemical spills
- K11 who to contact when there are emergencies
- K12 where to find the programme design
- K13 how to use a programme design
- K14 what chemicals to use and where to get them
- K15 what equipment is required for the dosing method
- K16 what resources are required
- K17 how to operate dosing equipment
- K18 who to report failed equipment to
- K19 how to clean and store dosing equipment
- K20 how to complete company documentation
- K21 how to dispose of chemical drums
- K22 how to dispose of any waste materials
- K23 how to clean up chemical spills
- K24 why it is important to clean, store and maintain any equipment and materials that are to be re-used

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### Additional Information

#### Glossary

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

Includes company requirements, instructions and method statements

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

Includes relevant health, safety and environmental regulations, coshh, codes of practice, british, european and international standards, site procedures

##### **Programme design**

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

##### **Resources**

Chemicals, dosing equipment, test materials, personal protective equipment, spill equipment, company documentation, identification

##### **Dosing equipment**

Chemical tanks and bunds, dosing pumps, pots and rigs, delivery hose, connectors, measuring jugs

##### **Documentation**

Includes standard operating procedures, analysis methods, analysis/report sheets, completion reports, inspection reports, log book records

##### **Relevant people**

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

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**Developed by** Cogent SSC

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**Version number** 1

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**Date approved** January 2012

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**Indicative review date** January 2015

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**Validity** Current

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**Status** Original

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**Originating organisation** Cogent SSC

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**Original URN** COGWT17

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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; dose; chemicals; system

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