

Overview

This unit is for those with responsibility to commission and set up water treatment equipment using prescribed company operating procedures.

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

This unit deals with the following:

- 1 preparation for commissioning
- 2 checking equipment and conditions
- 3 identifying the water treatment equipment
- 4 carrying out commissioning safely
- 5 recording operations

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

COGWT14 – SQA Unit Code (H403 04)

Commission water treatment equipment

Performance criteria

- You must be able to:*
- P1 work safely at all times, complying with health and safety, environmental and other relevant regulations and guidelines
 - P2 identify the supplier and design of the equipment to be commissioned
 - P3 identify the equipment to be commissioned and obtain manuals, design drawings and installation instructions
 - P4 identify the water treatment programme and programme design associated with the water treatment equipment
 - P5 arrange suitable time and date for the commissioning in accordance with company operating procedures
 - P6 ensure that all required resources are available and in operating condition
 - P7 agree with site any start up procedures for the water system to be served by the equipment
 - P8 start up water system in accordance with the agreed site procedure
 - P9 start up equipment and prove correct operation in accordance with installation instructions, method statement and company procedures
 - P10 complete commissioning in accordance with water treatment programme, programme design and company procedures
 - P11 deal with contingencies within the limitations of own knowledge and experience and in accordance with company policy
 - P12 complete commissioning report using standard company documentation
 - P13 provide documentation to the relevant people
 - P14 safely collect and dispose of any waste produced
 - P15 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 how to identify the supplier and design of the equipment to be installed
- K8 how to obtain manuals, design drawings and installation instructions
- K9 what the company operating procedures are
- K10 how to identify the water treatment programme and programme design associated with the water treatment equipment
- K11 how to use the water treatment programme and programme design associated with the water treatment equipment
- K12 how to arrange a suitable time and date for the commissioning in accordance with company operating procedures
- K13 what resources are required for the operation
- K14 how to use any resources that are required
- K15 how to maintain/service any resources that are required
- K16 who to communicate with on site
- K17 how to agree a start up procedure with site personnel
- K18 how to start up equipment and prove correct operation
- K19 what to do if equipment does not operate correctly

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Commission water treatment equipment

- K20 how to commission the equipment in accordance with company operating procedures
- K21 the company policy and own limitations with regard to contingencies
- K22 how to deal with contingencies within the limitations of own knowledge and experience and in accordance with company policy
- K23 what documentation is needed and how to complete it
- K24 who the relevant people are
- K25 what waste may be produced
- K26 how to safely collect and dispose of waste that may be produced
- K27 why it is important to leave the work place tidy

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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

Water treatment equipment

Includes equipment for ion exchange, reverse osmosis, filtration, chemical dosing and control, microbiological control, settlement and solids removal

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

Programme design

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

Resources

Company documentation, test equipment, spare parts, tools, documentation, manuals and operating instructions

Company operating procedures

Includes company requirements, instructions and method statements

Documentation

Includes log book records, report, certificates, test results

Relevant people

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

Contingencies Includes equipment failure, malfunction, environmental factors

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