COGWT23 – SQA Unit Code (H405 04)
Install water treatment equipment

Overview

This unit is for those with responsibility to complete installation operations for water treatment equipment using prescribed company operating procedures.

The equipment to be used 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 installation
2 checking equipment and conditions
3 identifying the water treatment equipment
4 carrying out installations 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

COGWT23
Install 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 installed

P3 identify the equipment to be installed and obtain manuals, design drawings and installation instructions

P4 identify and arrange for any sub contractor services to be provided in accordance with company operating procedures

P5 arrange a suitable time and date for the installation in accordance with company operating procedures

P6 ensure that all required resources are available and in operating condition

P7 identify with site personnel the correct site of installation

P8 agree with site any shut down and start up procedures for the water system to be served by the equipment

P9 shut down the system in accordance with the agreed site procedure

P10 complete installation in accordance with installation instructions, method statement and company procedures

P11 deal with contingencies within the limitations of your knowledge and experience and in accordance with company policy

P12 start up equipment and prove correct operation in accordance with installation instructions, method statement and company procedures

P13 start up water system in accordance with the agreed site procedure

P14 arrange for commissioning of the equipment in accordance with company operating procedures

P15 complete installation report using standard company documentation

P16 provide documentation to the relevant people

P17 safely collect and dispose of any waste produced

P18 ensure the workplace is left as originally found

COGWT23
Install water treatment equipment

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 sub contractor services are required and how they will be provided

K10 what the company operating procedures are

K11 what resources are required

K12 how to use any resources that are required

K13 how to maintain/service any resources that are required

K14 who to communicate with on site

K15 how to agree a shut down/start up procedure with site personnel

K16 how to install the water treatment equipment in accordance with installation instructions, method statement and company procedures

K17 the company policy and your own limitations with regard to contingencies

K18 how to start up equipment and prove correct operation

K19 what to do if equipment does not operate correctly

K20 how to arrange for commissioning of the equipment in accordance with company operating procedures

K21 what documentation is needed and how to complete it

K22 who the relevant people are

K23 what waste may be produced

K24 how to safely collect and dispose of waste that may be produced

K25 why it is important to leave the work place tidy

COGWT23
Install water treatment equipment

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

Sub contractor services

Includes electrical, water, gas, air, lifting, plant hire, waste removal

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, lack of spare parts, environmental factors

Waste produced

Includes chemical, packaging, consumable parts, system water, removed equipment

COGWT23
Install water treatment equipment

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