

EUSMUNC14 (SQA Unit Code - FA85 04)

Conduct specified testing of water network engineering products or assets



Overview

This national occupational standard defines the competences required to remove excess air from the system, pressure test and flush mains and services in accordance with the industry's standards and expectations. It includes making sure the manner in which tests are conducted and recorded meets the standards of quality assurance set by the organisation. It requires an understanding of safety requirements that need to be followed and adopted when carrying out test activities and procedures.

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Performance criteria

You must be able to:

Perform test activities

- P1 work safely in accordance with health and safety and environment regulations and legislation
- P2 carry out a site specific risk assessment, and review in accordance with company procedures
- P3 select and wear the designated PPE
- P4 follow and adopt procedures for the use of tools and equipment that are employed when carrying out tests in accordance with work instructions and manufacturers specifications
- P5 set up, remove excess air from the system, and carry out the tests and flush, in line with work instructions and within agreed timescales
- P6 review test results to establish that the performance of the system in accordance with equipment specifications and performance parameters
- P7 confirm the equipment is functioning in accordance system operating requirements and parameters
- P8 dispose of waste products in accordance with environmental
- P9 carry out all work in accordance with company procedures

You must be able to:

Use and communicate data and information

- P10 follow drawings, plans and specifications for the testing, pressure testing and flushing of engineering products and assets
- P11 follow all approved procedures and practices and statutory and regulatory requirements involved in test work activity
- P12 record the results of test activity following reporting systems and using documentation in accordance with company procedures and requirements

You must be able to:

Resolve problems which arise when performing test activities

- P13 report - to the designated person - damage or defects to test equipment
- P14 deal promptly and effectively with problems within control of the job holder and report those that cannot be solved
- P15 refer problems and conditions outside the responsibility of the job to the designated person using approved procedures
- P16 deal with any emergencies that may arise

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Knowledge and understanding

You need to know and understand:

General

- K1 the main responsibilities of the employer and employee under the Health and Safety at Work Act
- K2 the health and safety guidance governing work in excavations
- K3 the safe procedures for handling hazardous materials
- K4 organisational accident recording and reporting procedures
- K5 the range and use of personal protective equipment for the work

You need to know and understand:

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- K6 how to interpret drawings, plans and specifications for different test activities and procedures
- K7 the lines and procedures for reporting problems associated with the test work activities including standard industry documentation and relevant company procedures
- K8 how to use the various types of tests for mains and services, including removal of excess air from the system
- K9 record the results of test activity following reporting systems and using documentation in accordance with company procedures and requirements
- K10 refer problems and conditions outside the responsibility of the job to the designated person using approved procedures
- K11 deal with any emergencies that may arise
- K12 how to use the various types of test equipment, including that to remove excess air from the system and how to use it correctly
- K13 how to operate the relevant pressure equipment and why it should be calibrated
- K14 the testing methods and procedures that can be adopted to remove excess air from a system
- K15 the consequences of test failure to the environment
- K16 the procedures to follow and documentation to be used to record test results
- K17 the consequences of mechanical failures during testing due to the pressure ranges

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Additional Information

Behaviours

Behaviour which underpins effective performance

You work in a manner in which you:

1. are vigilant to possible risks and hazards
2. treat people with civility

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