
Overview

This Standard is about conducting specified testing of water network engineering products or assets. It includes setting up safe working areas, selecting appropriate test equipment, removing excess air from systems and pressure testing and flushing mains and services.

This Standard is for water network construction operatives who conduct specified testing of water network engineering products or assets.

Performance criteria

You must be able to:

1. conduct tests in accordance with health and safety and environment regulations and legislation
2. carry out and review site specific risk assessments in accordance with company procedures
3. set up safe working areas which prevents unauthorised access
4. select and wear designated personal protective equipment (PPE)
5. use tools and equipment to carry out tests in accordance with work instructions and manufacturers specifications
6. set up, remove excess air from systems, carry out the tests and flush in line with work instructions and within agreed timescales
7. carry out tests in accordance with approved procedures and practices and statutory and regulatory requirements
8. review test results to establish that system performance is in accordance with equipment specifications and performance parameters
9. confirm equipment is functioning in accordance with system operating requirements and parameters
10. dispose of waste products in accordance with environmental requirements
11. use relevant information from method statements, plans and specifications to inform testing, pressure testing and flushing of engineering products and assets
12. record test results in organisational reporting systems and standard industry documentation in accordance with company procedures and requirements
13. report - to the designated person - damage or defects to test equipment
14. deal with problems within your control without delay
15. refer problems and conditions outside your responsibility to appropriate people using approved procedures
16. deal with any emergencies that may arise in line with emergency procedures

Knowledge and understanding

You need to know and understand:

1. how to interpret method statements, plans and specifications for different test activities and procedures
2. the lines and procedures for reporting problems associated with test activities including standard industry documentation and relevant company procedures
3. how to use the various types of tests for mains and services, including removal of excess air from the system
4. procedures to deal with emergencies
5. how to use the various types of test equipment
6. how to remove air from systems and the implications of not doing it
7. testing methods and procedures that can be adopted to remove excess air from systems
8. how to operate relevant pressure equipment and why it should be calibrated
9. the consequences to the environment and people of test failure
10. the consequences of mechanical failures to pressure ranges during testing
11. relevant health, safety and environment legislation, procedures and codes of practice including those governing work in excavations, hazardous materials, accidents and personal protective equipment (PPE), confined space, working at height
12. how to identify damage or defects to test equipment and who to report it to
13. procedures for referring problems outside your responsibility

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Conduct specified testing of water network engineering products or assets



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