Water Networks Technician

Unit WNTC02 Materials Used in Clean Water Networks (Mains and Services)

This training specification is knowledge only and has been developed from the water process technician standard. The specification details the **minimum** training specification, as agreed by industry employers, to understand the materials used in clean water networks (mains and services).

The specification details the critical requirement of the activity to carry out the work outlined and does not preclude employers from adding to the knowledge detailed by the specification in their own training programmes.

All work must be carried out to approved procedures and practices and in accordance with statutory health, safety and environmental requirements.

What does this specification look like?
Water networks technicians need to be able to:
NMS1 Understand the different materials used in clean water networks mains and services including their uses and limitations

What do I need to take this module?
Candidates to be **assessed** should have successfully completed the modules shown below or have evidence demonstrating an equivalent level of competence.
1.   National Water Hygiene Scheme

Knowledge and Understanding

To achieve this unit, you will need to know and understand:

General Requirements:

K1. The principles of Health, Safety and Environmental legislation in relation to working with water
K2. The organisation's safety rules, policies and procedures relating to working with water
K3. The hazards associated with working on the clean water network and the correct way to respond to them
K4. How to select, inspect and use PPE when working with water
K5. How to carry out a site specific risk assessment and identify workplace hazards
K6. How to respond in the event of an emergency situation in the workplace environment
K7. How to leave the work area in a safe and secure condition
K8. The company recording and reporting process

Task Specific - Materials used in clean water mains and services

K9. Specific health & safety requirements relating to materials used in mains and services
K10. Different types of materials used in the clean water network and characteristics associated with them
K11. The different types of tools required while working on mains and services
K12. The contamination risks associated with different types of materials used in the clean water network and their uses and limitations
K13. The relationship between chemical dosing and the materials used in the clean water network e.g. phosphate dosing
K14. The fittings and equipment associated with the different pipe materials used in clean water networks
K15. Procedures associated with the maintenance and repair of different pipe materials used in the clean water network
K16. Reinstatement techniques associated with the different pipe materials used in the clean water network
K17. The methods, materials and processes used to refurbish / rehabilitate the different pipe materials used in the clean water network
K18. Accepted temporary and permanent repair techniques for different pipe materials used in the clean water network

How will it be assessed?

To achieve this unit, you will need to be able to provide evidence of the performance criteria and the knowledge and understanding requirements listed above.

Assessment types:

1. External assessment – an external accrediting body will assess against a national minimum standard
2. Internal assessment process – a company led on-going assessment against requirements
3. End-point assessment – see assessment plan for further details here (will be Energy & Utility Skills defined)

What type of evidence will be expected?

To achieve this unit, you will need to be able to provide evidence of the performance criteria and the knowledge and understanding requirements listed above.

Evidence types:

1. On-going local assessments
   a) Assessment plan, review, feedback, standard assessment sheets
2. Knowledge based learning
   a) Classroom, exams, assignments, Q&A sessions, e-learning modules
3. Evidence portfolios
   a) Learning logs, photos, observation sheets

Assessment types and process

Local assessment	Assessment plan developed	Quarterly assessments	Portfolio reviewed	Feedback to learner
Workplace training	Theory based learning	Assignments	Observation and Q&A	Exams
End-point assessment	Portfolio submission	Industry Context trade tests	Knowledge exam	Observation