

Water Networks Technician

Unit WNTC16 Water Network Rehabilitation and Renewal

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 water network rehabilitation and renewal in the water sector.

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:

WNRR1 Understand the materials and techniques used in clean water networks rehabilitation and renewal

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
2. WNTC02 - Materials used in clean water networks

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 - Water Network Rehabilitation and Renewal

- K9. Specific health & safety requirements relating to rehabilitation and renewal of mains and services
- K10. The drivers and strategy regarding mains rehabilitation and renewal versus more traditional techniques e.g. pipe bursting or open cut
- K11. The water quality drivers associated with the use of rehabilitation and renewal techniques for mains and service pipes
- K12. Procedures associated with the rehabilitation, renewal and repair of different pipe materials used in the clean water network
- K13. Rehabilitation and renewal techniques associated with the different pipe materials used in the clean water network. This must include:
 - a) Use of structural liners
 - b) Use of non-structural liners
 - c) Pipe Bursting
 - d) Directional drilling and tunnelling
 - e) Moling
 - f) Air scouring
 - g) Ice pigging
 - h) Swabbing

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

