

Water Network Technician

Unit WNT002 Water Network Modelling

This training specification is knowledge only 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 modelling in the water sector.

The specification details the critical requirements of the activity to establish competence and does not preclude employers from adding to the skills and 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 network technicians need to be able to:

- WNM1 Identify when network modelling will be of value in identifying faults and limitations in the water network
- WNM2 Understand and interpret relevant data that will facilitate the use of network models and there results

What do I need to take this module?

Candidates to be **assessed** as competent in this skill area should have completed the modules shown below or have evidence demonstrating an equivalent level of competence.

1. SHEA water or equivalent
2. All water networks technician specific units

Knowledge and Understanding

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

Task Specific – Water Network Modelling

- K1. Hydraulic theories, including calculations involving flow, pressure, velocities and head loss from first principles
- K2. The principles of network modelling and common software packages used within the industry
- K3. How to carry out a capacity check calculation
- K4. Real time systems used to manage and monitor the network in line with company policies and procedures
- K5. Data collection, recording, and reporting requirements

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

