

Wastewater Network Technician

Unit WWNC11 Water Jetting Operations

This training specification has been developed from the water process technician standard. The specification details the **minimum** training specification, as agreed by industry employers, to deliver the skills and knowledge required to carry out water jetting operations on the wastewater network 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?

Wastewater network technicians need to be able to:

- WWNJO1 Select, set up, maintain and operate appropriate jetting equipment to undertake wastewater network investigations in accordance with company procedures
- WWNJO2 Carry out water jetting operations safely whilst working and communicating effectively with third parties and colleagues

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. Risk Assessment
3. Manual Handling
4. Medium risk enclosed areas
5. Water Jetting safety awareness
6. Valve and hydrant operation training

Performance Criteria

To achieve this unit, you will need to be able to:

General Requirements

- P1. Identify the work area to be accessed using company documentation, systems and work instructions where appropriate
- P2. Select, inspect and wear required PPE in line with company procedures where appropriate
- P3. Carry out a site specific risk assessment of the work area, identifying the hazards and the control measures required
- P4. Maintain accurate and up to date records
- P5. Report information and data to the designated person

Task Specific – Water Jetting Operations

- P6. Identify an appropriate water supply (designated hydrant)
- P7. Connect to a designated hydrant using the appropriate connection / disinfection techniques
- P8. Inspect and prepare appropriate jetting equipment in line with company and manufacturer's instructions
- P9. Provide and maintain safe access to the wastewater network for the jetting activity
- P10. Select a jetting nozzle suitable for the jetting operation, taking in to account blockage composition and pipe material / condition
- P11. Safely operate the jetting equipment so as not to put operators, customers and assets at risk of injury or damage
- P12. Inspect, select and use ancillary equipment in conjunction with jetting equipment to complete a jetting operation, including but not limited to:
 - a) Tiger Tail
 - b) Jetting Bar
 - c) Leader Hose
 - d) Hose Guide Tube
- P13. Store tools and equipment safely and securely and leave the work area work in a safe condition in accordance with company procedures
- P14. Record findings and escalate any further work or observations to the appropriate resource in line with company procedure

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 wastewater
- K2. The organisation's safety rules, policies and procedures relating to working with wastewater
- K3. The hazards associated with working with wastewater and the correct way to respond to them
- K4. How to select, inspect and use PPE when working with wastewater
- 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 Jetting Operations

- K9. The specific health & safety requirements relating to water jetting operations
- K10. How to interpret wastewater network records and location history to identify the access points and potential blockage location
- K11. The basic components of a sewer jetting unit
- K12. How to select appropriate jetting units based on pipe diameter, depth, extent of operation, blockage composition and other relevant operational factors
- K13. The procedure to inspect and prepare jetting and ancillary equipment to ensure an operation can be undertaken without risk to the operator, the public, or damage to the equipment or asset
- K14. The procedure for operating jetting equipment in a manner as not to put operators, customers and assets at risk of injury or damage
- K15. The abilities, limitations and recommended applications of a variety of jetting nozzles
- K16. The correct working pressure for jetting equipment based on blockage composition and pipe material / condition
- K17. How to select an appropriate water supply (designated hydrant)
- K18. How to connect to a designated hydrant using the appropriate connection / disinfection techniques
- K19. Data collection, recording, reporting and maintenance 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

