

Wastewater Network Technician

Unit WWNC14 Pipe, Cable and Sonde Location

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 the location and avoidance of underground utilities in a work area.

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:

- WWPCS1 Use utility plans and electronic locating equipment to locate underground pipes, cables and sondes in accordance with company procedures
- WWPCS2 Carry out pipe, cable and sonde location 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

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 – Pipe, Cable and Sonde Location

- P6. Inspect and prepare tools and equipment for the location activity
- P7. Check the electronic locating equipment in accordance with company and manufacturers' instructions
- P8. Use work instructions, utility plans and line search documents to determine the extent of the work site area where utilities are to be located
- P9. Carry out a visual inspection of the work area surface to identify evidence of any services in accordance with work instructions and or company procedures
- P10. Use electronic locating equipment in **ALL** of the following modes to locate utilities
 - a) Passive line tracing
 - b) Active Line Tracing
 - c) Sonde Locating
- P11. Mark and record the position of services and sub-structures on the work site in accordance with company procedures
- P12. Store tools and equipment safely and securely and leave the work area work in a safe condition in accordance with company procedures

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 – Pipe, Cable and Sonde Location

- K9. The specific health & safety requirements relating to pipe, cable and sonde location operations
- K10. How electronic locating equipment works
- K11. The components of the electronic locating equipment and elements of the display
- K12. How to set up the electronic locating equipment for the intended work activity
- K13. The differences in locator settings and how each is used, including:
 - a) Passive line tracing
 - b) Active Line Tracing
 - c) Sonde Location
- K14. The procedures for marking the location of identified pipes, cables and sondes
- K15. 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

