

Wastewater Network Technician

Unit WWNC13 CCTV Remedial Action

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 identify any remedial action and repairs required from CCTV 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:

- WWCRA1 Understand the various wastewater network defects which are encountered during CCTV surveys and the factors which contribute to the urgency of remedial action
- WWCRA2 Identify the most appropriate remedial action technique available based on the defect severity
- WWCRA3 Report the findings to the designated person to ensure that remedial action is initiated

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

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 – CCTV Remedial Action

- P6. Identify defects which are commonly encountered on sewer CCTV surveys, including but not limited to:
 - a) Displaced joints
 - b) Intruding connections
 - c) Cracks and fractures
 - d) Fabric loss
 - e) Deformation
 - f) Root ingress
 - g) Grout and encrustation
- P7. Identify defects which are to be recorded as a collapse, in line with the sewerage rehabilitation manual definition
- P8. Report findings to the designated person to ensure remedial work is initiated
- P9. Determine the condition grading of sewers
- P10. Use CCTV footage in conjunction with company systems to determine whether identified defects are related to existing or historical wastewater network issues

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 – CCTV Remedial Action

- K9. The factors which dictate the urgency of remedial work when dealing with various wastewater network defects, including but not limited to:
 - a) Displaced joints
 - b) Intruding connections
 - c) Cracks and fractures
 - d) Fabric loss
 - e) Deformation
 - f) Root ingress
 - g) Silt
 - h) Grout and encrustation
- K10. The range of techniques available for the repair of various wastewater network defects, including but not limited to:
 - a) Displaced joints
 - b) Intruding connections
 - c) Cracks and fractures
 - d) Fabric loss
 - e) Deformation
 - f) Root ingress
 - g) Silt
 - h) Grout and encrustation
- K11. The abilities and limitations of sewer repair techniques and equipment, including but not limited to:
 - a) Jetting
 - b) Sewer lining
 - c) Precision cutting
 - d) Excavation
- K12. The definition of a sewer collapse, as per the sewerage rehabilitation manual
- K13. How to use CCTV surveys, network plans and company systems to determine whether sewer defects are due to current or historical network issues
- K14. 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

