

# Wastewater Network Technician

## Unit WWNC12 CCTV 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 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:

- WWCTV1 Select, set up, maintain and operate appropriate CCTV equipment to undertake wastewater network investigations in accordance with company procedures
- WWCTV2 Carry out CCTV 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

## 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 Operations

- P6. Inspect and select appropriate tools and CCTV equipment for the location activity
- P7. Prepare appropriate CCTV equipment in line with company and manufacturers' instructions
- P8. Safely operate the following CCTV equipment to undertake a CCTV survey:
  - a) Push rod axial camera
  - b) Push rod pan & tilt camera (where appropriate)
  - c) Crawler camera
- P9. Safely insert and remove CCTV equipment into and from the wastewater network in line with company and manufacturers' procedures
- P10. Operate CCTV equipment functions including lights, focus, sonde and where appropriate zoom, pan & tilt, elevation and reverse
- P11. Record and store CCTV survey and communicate results with personnel in line with company procedure
- 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 – CCTV Operations

- K9. The specific health & safety requirements relating to CCTV Operations
- K10. How to safely provide access to the wastewater network for sewer CCTV equipment
- K11. How to interpret wastewater network records to identify the access points and extent of survey
- K12. How to select appropriate CCTV surveying equipment based on pipe diameter, depth, extent of survey and other relevant operational factors
- K13. The procedure to inspect and prepare CCTV equipment to ensure a survey can be undertaken without risk to the operator, the public or damage to the equipment
- K14. The abilities and limitations of push rod axial, push rod pan & tilt, and crawler CCTV systems
- K15. How to introduce and remove CCTV equipment to and from the wastewater network
- K16. How to locate the underground position of CCTV equipment
- K17. The procedures for reporting and recording CCTV survey results

### 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

