

# Water Networks Technician

## Unit WNTC12 Asset Security

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 carry out asset security in the clean water network.

The specification details the critical requirement of the activity to carry out the work outlined 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 networks technicians need to be able to:

- AS01 Identify the assets associated with clean water networks and explain the legislation and regulations that relate to them
- AS02 Understand and carry out site and asset security inspections on clean water networks
- AS03 Manage breaches of security and implement contingency plans for such events

### What do I need to take this module?

Candidates to be **assessed** should have successfully completed the modules shown below or have evidence demonstrating an equivalent level of competence.

1. National Water Hygiene Scheme
2. Pumping Station Operations
3. Valve and Hydrant Operations
4. Treated Water Storage

## 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
- P2. Select, inspect and wear required PPE in line with company procedures
- 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 – Asset Security

- P6. Identify the assets associated with clean water networks and security
- P7. Follow the requirements and procedures associated with asset and site security on clean water networks
- P8. Manage breaches of security and implement contingency plans for such events
- P9. Carry out and record site security and asset inspections on company forms
- P10. Raise further work for works associated with site and asset security
- P11. Manage works associated with site and asset security
- P12. Complete valve exercising schedules in line with company policy and procedures
- P13. Carry out planned and un-planned shutdowns of assets
- P14. Report incidents and accidents in line with company policy and 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 water
- K2. The organisation's safety rules, policies and procedures relating to working with water
- K3. The hazards associated with working on the clean water network and the correct way to respond to them
- K4. How to select, inspect and use PPE when working with water
- 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 - Asset Security

K9. Specific health & safety requirements relating to asset security

K10. The legislation, drivers and strategy behind asset security in the water industry

K11. The buildings, fittings and equipment associated with asset security:

- a) Service Reservoirs
- b) Pumping Stations
- c) Large Diameter Trunk Mains (LDTM)
- d) Strategic sites
- e) Strategic valves

K12. Procedures associated with asset security in clean water networks

K13. How to interrogate the information system e.g. SCADA / HMI to identify and control items of mechanical, electrical and instrumentation equipment

K14. How to set up alarm set points in relation to telemetry

K15. How to interrogate and record telemetry readings and escalate them during adverse operating conditions

K16. 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

