Wastewater Network Technician

Unit WWNC08 Data Logging 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 collect, record and maintain data logging operations in 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:

WWNDL1 Understand company and regulatory requirements for data logging and their role in maintaining the validity of the data logging systems

WWNDL2 Retrieve information and data and record it in the relevant company data systems

WWNDL3 Use data logging information to manage and maintain the wastewater network within company and regulatory parameters

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. Wastewater Pumping Station Operations
3. 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 – Data Logging Operations

P6. Confirm the data type needed, this could include:
    a) Flow
    b) Levels
    c) Pump status
    d) Alarm status
    e) Incident history / details
    f) Asset details
    g) Maintenance schedules
P7. Use company mapping systems, site specific information and location equipment to detect required data logging points; this could include:
    a) Hydrants
    b) Pumping stations
    c) Outfalls
    d) Infrastructure assets
    e) Incident locations
P8. Access data logging points / locations
P9. Confirm that logging device is active and record required data in line with company procedures and standards
P10. Access company information systems such as SCADA / HMIs, for permanent logging devices or data storage and interpret data such as:
    a) Flow monitoring
    b) Level monitoring
    c) Pump operation/status
    d) CSO discharges
    e) Alarm status

f) Incident history / details
g) Asset details
h) Maintenance schedules

P11. Maintain data logging equipment in line with manufacturers' recommendations e.g. annual calibration

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 – Data Logging Operations

K9. The specific health & safety requirements relating to data logging points and locations
K10. The company and regulatory requirement for data logging
K11. Procedures relating to data collection, recording, reporting and maintenance requirements
K12. How to confirm the data type needed, this could include:
a) Flow
b) Levels
c) Pump status
d) Alarm status
e) Incident details
f) Asset details
K13. How to use company mapping systems, site specific information and location equipment to detect required data logging points; this could include:
a) Hydrants
b) Pumping stations
c) Outfalls

d) Infrastructure assets
e) Incident locations

K14. How to access data logging points / locations

K15. How to confirm that logging device is active and how to ensure logging data is recorded in line with company procedures and standards

K16. How to access company information systems such as SCADA / HMI, for permanent logging devices or data storage and interpret data such as:
a) Flow monitoring
b) Level monitoring
c) Pump operation / status
d) CSO discharges
e) Alarm status
f) Incident history / details
g) Asset details
h) Maintenance schedules

K17. How to maintain data logging equipment in line with manufacturers' recommendations e.g. annual calibration

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