



Qualification Specification

ProQual Level 3 Award in Understanding Wastewater Networks

ProQual Level 3 Award in Understanding Wastewater Networks



This qualification is part of ProQual's broad offer of qualifications in the Water Industry Sector.

To find out more about other qualifications in this, or any other sector, or for our latest fees; check our Fees Schedule via the QR code below



Scan Here

Contents

Contents	2
Introduction.....	3
Qualification Profile	3
Learner Profile	4
Qualification Structure	4
Centre Requirements	4
Certification	5
Assessment Requirements.....	6
Enquiries, Appeals and Adjustments.....	7
Units – Learning Outcomes and Assessment Criteria.....	8
Introduction to Wastewater Networks	8
Appendix One – Command Verb Definitions	12

Introduction

The Level 3 Award in Understanding Wastewater Networks is aimed at candidates who wish to demonstrate their knowledge and understanding of regulatory compliance requirements and best practice in Water Networks.

The awarding body for this qualification is ProQual AB. This qualification has been approved for delivery in England and Northern Ireland. The regulatory body for this qualification is Ofqual, and this qualification has been accredited onto the Regulated Qualification Framework (RQF), and has been published in Ofqual's Register of Qualifications.

Qualification Profile

Qualification Title:	ProQual Level 3 Award in Understanding Wastewater Networks
Qualification Number:	610/4583/4
Level:	Level 3
Total Qualification Time (TQT):	60 Hours
Guided Learning Hours (GLH):	50 Hours
Credit Value:	6 Credits Pass / Fail
Assessment:	Internally assessed and verified by centre staff External quality assured by ProQual Verifiers
Qualification Start Date:	31/07/2024
Qualification Review Date:	31/07/2027

Learner Profile

There are no formal academic entry requirements for this qualification. Centres should carry out their own initial assessment of a candidate's initial knowledge and skills.

Qualification Structure

This qualification consists of **one** unit. Candidates must complete the mandatory to achieve this qualification.

Unit Number	Unit Title	Level	TQT	GLH
Mandatory Units – Candidates must complete all units in this group.				
H/651/2664	Introduction to Wastewater Networks	3	60	50

Centre Requirements

Centres must be approved to deliver this qualification. If your centre is not approved to deliver this qualification, please complete and submit the **ProQual Additional Qualification Approval Form**.

Materials produced by centres to support candidates should:

- Enable them to track their achievements as they progress through the learning outcomes and assessment criteria.
- Provide information on where ProQual's policies and procedures can be viewed.
- Provide a means of enabling Internal and External Quality Assurance staff to authenticate evidence.

Certification

Candidates who achieve the requirements for this qualification will be awarded:

- A certificate listing all units achieved, and
- A certificate giving the full qualification title:

ProQual Level 3 Award in Understanding Wastewater Networks

Claiming certificates

Centres may claim certificates for candidates who have been registered with ProQual and who have successfully achieved the qualification. All certificates will be issued to the centre for successful candidates.

Unit certificates

If a candidate does not achieve all of the units required for a qualification, the centre may claim a unit certificate for the candidate which will list all of the units achieved.

Replacement certificates

If a replacement certificate is required a request must be made to ProQual in writing. Replacement certificates are labelled as such and are only provided when the claim has been authenticated. Refer to the Fee Schedule for details of charges for replacement.

Assessment Requirements

Each candidate is required to produce a portfolio of evidence which demonstrates their achievement of all of the learning outcomes and assessment criteria for each unit.

Evidence can include:

- Observation report by assessor
- Assignments/projects/reports
- Professional discussion
- Witness testimony
- Candidate product
- Worksheets
- Record of oral and written questioning
- Recognition of Prior Learning

Candidates must demonstrate the level of competence described in the units. Assessment is the process of measuring a candidate's skill, knowledge and understanding against the standards set in the qualification.

Centre staff assessing this qualification must be **occupationally competent** and qualified to make assessment decisions.. Assessors who are suitably qualified may hold a qualification such as, but not limited to:

- ProQual Level 3 Certificate in Teaching, Training and Assessment.
- ProQual Level 3 Award in Education and Training.
- ProQual Level 3 Award in Assessing Competence in the Work Environment.
(Suitable for assessment in the workplace only.)
- ProQual Level 3 Award in Assessing Vocational Achievement.
(Suitable for assessment taking place in a simulated training environment only.)

Candidate portfolios must be internally verified by centre staff who are **occupationally knowledgeable** and qualified to make quality assurance decisions. Internal verifiers who are suitably qualified may hold a qualification such as:

- ProQual Level 4 Award in the Internal QA of Assessment Processes and Practice.
- ProQual Level 4 Certificate in Leading the Internal QA of Assessment Processes and Practice.

Occupationally competent means capable of carrying out the full requirements contained within a unit. **Occupationally knowledgeable** means possessing relevant knowledge and understanding.

Enquiries, Appeals and Adjustments

Adjustments to standard assessment arrangements are made on the individual needs of candidates. ProQual's Reasonable Adjustments Policy and Special Consideration Policy sets out the steps to follow when implementing reasonable adjustments and special considerations and the service that ProQual provides for some of these arrangements.

Centres should contact ProQual for further information or queries about the contents of the policy.

All enquiries relating to assessment or other decisions should be dealt with by centres, with reference to ProQual's Enquiries and Appeals Procedures.

Units – Learning Outcomes and Assessment Criteria

Title:		Introduction to Wastewater Networks		Level:	3
Unit Number:	H/651/2664	TQT:	60	GLH:	50
Learning Outcomes <i>The learner will be able to:</i>		Assessment Criteria <i>The learner can:</i>			
1	Understand regulatory compliance with respect to Wastewater Networks.	1.1	Explain the regulatory framework with regards to the Water Industry.		
		1.2	Identify legislation and regulations pertaining to the Wastewater Network.		
		1.3	Identify relevant industry health and safety standards.		
		1.4	Explain how regulatory performance is measured.		
		1.5	Explain the importance of good customer service.		
2	Understand the design requirements of the Wastewater Network.	2.1	Explain the impact on people and the environment of uncontrolled Wastewater Network discharges.		
		2.2	Explain, with examples, how to carry out basic calculations relating to the design and hydraulics of Wastewater Networks, including; <ul style="list-style-type: none"> • Flow. • Gradient. • Self-cleansing velocity. • Friction loss in a pumping system. • Surcharge. 		

2	Continued	2.3	<p>Identify the main components of the Wastewater Network, including;</p> <ul style="list-style-type: none"> • Manholes. • Sewers. • Detention tanks. • Pumping stations. • CSO. • Flow control devices.
		2.4	Describe and explain the sewer adoption process.
		2.5	Explain how Wastewater Network flows impact on the Wastewater Treatment process and the importance of flow management.
3	Understand the principles of and best practice associated with the successful operation of the Wastewater Network.	3.1	Explain the operation of a pumping station with particular reference to level control and overflows.
		3.2	<p>Explain the routine operation and maintenance requirements of the Wastewater Network, including the following:</p> <ul style="list-style-type: none"> • Gravity sewers. • CSO's. • Mechanical screens. • Monitoring instruments. • Interceptors.
		3.3	<p>Describe the techniques for carrying out maintenance activities on the Wastewater Network including:</p> <ul style="list-style-type: none"> • Using drain rods. • High pressure water jetting. • CCTV. • Flushing.

4	Understand the causes of failure and customer complaints relating to the performance of the Wastewater Network and the techniques used to determine the cause.	4.1	Identify the causes of poor performance of the wastewater network.
		4.2	Describe the impact of poor performance of the wastewater network on the public and environment.
		4.3	Describe the techniques used to investigate the cause of the failure and action required to restore the performance of the Wastewater Network, including: <ul style="list-style-type: none"> • CCTV. • High pressure water jetting. • Sonde. • Dye testing.
		4.4	Describe the procedures followed to investigate and determine the causes of poor performance.
5	Understand the techniques used to restore the performance of the Wastewater.	5.1	Describe the techniques used to repair the Wastewater Network, including: <ul style="list-style-type: none"> • Patch. • CIP. • Relining.
		5.2	Compare trench and trenchless techniques for repairing or replacing sewers.
		5.3	Explain the procedures required to be followed when repairing and/or replacing components of the network.

6	Understand the need for the Water Industry to become more resilient.	6.1	Explain the customer and regulatory drivers for increased resilience of the Wastewater Network.
		6.2	State the potential impacts of climate change on the Water Industry.
		6.3	Describe the effect of climate change on a risk and resilience strategy.

Appendix One – Command Verb Definitions

The table below explains what is expected from each **command verb** used in an assessment objective. Not all verbs are used in this specification

Apply	Use existing knowledge or skills in a new or different context.
Analyse	Break a larger subject into smaller parts, examine them in detail and show how these parts are related to each other. This may be supported by reference to current research or theories.
Classify	Organise information according to specific criteria.
Compare	Examine subjects in detail, giving the similarities and differences.
Critically Compare	As with compare, but extended to include pros and cons of the subject. There may or may not be a conclusion or recommendation as appropriate.
Describe	Provide detailed, factual information about a subject.
Discuss	Give a detailed account of a subject, including a range of contrasting views and opinions.
Explain	As with describe, but extended to include causation and reasoning.
Identify	Select or ascertain appropriate information and details from a broader range of information or data.
Interpret	Use information or data to clarify or explain something.
Produce	Make or create something.
State	Give short, factual information about something.
Specify	State a fact or requirement clearly and in precise detail.



ProQual Awarding Body

ProQual House
Unit 1, Innovation Drive
Newport, Brough
HU15 2GX

Tel: 01430 423 822
enquiries@proqualab.com
www.proqualab.com