

Wastewater Network (Sewerage) Technician Portfolio and Grading Guidance

Overview

The portfolio is one of two assessment methods used in the Water Process Technician end-point assessment. The other method is a knowledge test. The portfolio has two parts:

- Evidence of successful completion of the trade test, worth 41 points
 - \circ $\;$ These points are 'banked' when the apprentice passes the trade test $\;$
- The work log, scored out of a maximum 59 points

The work log may be in a paper and / or electronic format. It provides evidence of the range of wastewater treatment experience and work carried out by the apprentice in the workplace, mapped to the requirements of the standard, as described in this guidance. Only include the evidence required for the Wastewater Network Technician standard.



Portfolio Grading Criteria within the Published Assessment Plan

The following table outlines the scoring criteria published in the WPT assessment plan. Detailed guidance is in the next section.

Fail Criteria	Pass Criteria	Distinction Criteria
Fail ≤69	Pass (70-84)	Distinction (85-100)
Portfolio lacks sufficient	Portfolio well-	The portfolio demonstrates
evidence and structure to	structured and	evidence which is over and
demonstrate knowledge,	contains sufficient and	above the requirements of
skills and competency	robust evidence to	the standard through the
through the work log,	demonstrate	work log, progress reviews
progress reviews and	knowledge, skills and	and progressive
progressive authorisation	competency across the	authorisation assessments
assessments across the	standard through the	
standard	work log, progress	Pass in the final trade test
	reviews and	
Fail in the final trade test	progressive	Outstanding application of
	authorisation	knowledge in the
Poor application of	assessments	work place
knowledge in the work		
place	Pass in the final trade	High level of critical
	test	reasoning skills displayed
Poor reasoning skills		on practical tasks
displayed on practical	Good application of	
tasks	knowledge in the work	Outstanding team and
	place	interpersonal skills and the
Negative team working	Cood aritical researcing	ability to respect the
and interpersonal skills	Good critical reasoning	opinion of others
Subject to a company	skills displayed on	
Subject to a company disciplinary procedure	practical tasks	
	Good team working	
	and interpersonal skills	
	and ability to respect	
	the opinion of others	



Portfolio Evidence Requirement and Grading Guidance

Pass evidence can come from Work Log or Trade Test, **unless stated otherwise**. Distinction evidence can only come from Work Log.

Whilst evidence is not required for every bullet point, in each section, it is best practice to ensure that there is depth and breadth of evidence which tells the story of completed jobs from start to finish.

- If the Trade Test has been passed, then **41 points** can be awarded towards the portfolio score
- Each portfolio evidence requirement will be awarded a points score in line with the portfolio grading guidance documentation/ guidance below
- Evidence for the following sections must be presented in the work log (not normally assessed in the Trade Test)
 - Section 4: Drive vehicles equipped with tools and materials to other sites as required
 - Section 8: Operate electronic location equipment to locate drains and sewers
 - Section 9: Work safely in a variety of locations that may include urban and rural areas, on and off the public highway and may include remote locations and where required act as supervisor of Street Works ensuring the safety of pedestrians, vehicles and site staff
 - Section 12: Conduct confined spaces operations and ensure equipment is maintained to the required standard
 - Section 13: Where required, supervise and inspect excavations and backfilling including trench support systems

The Work Log grading criteria are divided into 15 sections for knowledge and skills, and 5 sections for behaviours:

- Grading the Pass criteria:
 - If there is no evidence for any of the Pass criteria in any section, then 0 points should be awarded, **and a Pass cannot be achieved**
 - If there is a sufficient range of evidence to assess competence, 1 point should be awarded. Suggested minimum requirements are stated in each section
 - In a section where there is a range of points available AND if the apprentice has met the minimum requirements for that section, additional points can be awarded for evidence covering **additional** Pass statements.



An additional point can be awarded for each additional statement met, up to the maximum points available for that section

- To achieve an overall pass, all sections must be awarded at least 1 point.
- Grading the Distinction Criteria:
 - If there is no evidence for any of the Distinction criteria, then 0 points should be awarded
 - If there is evidence for at least one of the Distinction criteria, 1 point should be awarded
 - In a section where there is a range of points available, additional points can be awarded for evidence covering additional Distinction statements. An additional point can be awarded for each additional statement met, up to the maximum points available for that section.

IMPORTANT: the criteria listed in each section are indicative of the evidence that should be presented. Owing to variation in employer practises and operational conditions, the list of criteria is not exhaustive and other evidence may be presented that matches the section description. Providers should support apprentices in selecting evidence that matches the section description, and where necessary, cross-check with the relevant knowledge, skill or behaviour.

Portfolio Grade Boundaries

Max Points	Minimum Points Required to Achieve a Pass	Minimum Points Required to Achieve Distinction
100 (41 from trade test)	70	85

Referencing the Work Log

Providers should support apprentices to select evidence for their Work Log and to reference it so the assessor can find relevant sections easily. A Work Log Mapping Template is available from EUIAS at www.euias.co.uk/end-point-assessment/epa-resources

Each section is numbered, and each criterion is referenced with a letter. The combination of number and letter should be used to reference the evidence in the Work Log.



• For example, reference **3b** should be used in the Work Log to indicate evidence of testing and maintaining H&S equipment.

Evidence for Behaviours can come from company behavioural reviews typically from the last three months of training.



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
1. Knowledge and application of relevant health and safety, environmental and industry standards and regulations, policies and procedures K1, K3, S7, S8, S9	2	Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Training / certificates / attendance at training courses relating to H&S, environmental, regulatory and HR requirements (e.g. Toolbox talks, induction) b) Knowledge of where to access H&S, environmental and industry information c) Reporting any faults, loss or issues with equipment d) Suggesting and implementing appropriate control measures e) Identifying changing situations in the workplace and taking the appropriate action



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
	3	Distinction	 f) Voluntarily engaging with employer to make contributions to health and safety improvements and initiatives g) Understanding of the wider ranging consequences of not following standards, regulations, policies and procedures h) Continuously updating knowledge regarding health, safety, environmental and industry standards and procedures i) Understanding of wider ranging consequences of not working safely and carrying out risk assessments j) Explaining the need to maintain and store PPE and other safety equipment k) Explaining the wider ranging consequences of not working appropriately with (including storage and disposal of) chemicals l) Monitoring safety equipment use and compliance in others m) Voluntarily taking an active role in completing safety compliance checks for others



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
2. Knowledge and application of water industry operations and maintenance practices, processes and procedures in wastewater treatment K2, K4, S10	1	Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Knowledge of company operations and maintenance policies and procedures and where to find them e.g. sampling procedures, flow monitoring b) Training / certificates / attendance at training courses relating to operations and maintenance practices, processes and procedures
3.Use theory and principles to undertake fault finding, testing and analysis on specific equipment, instruments and IT systems and interpret the results to implement effective solutions K5, K6, S7, S12, S13	2	Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Training / certificates / attendance at courses relating to specific equipment, instruments and IT systems b) Testing and maintaining H&S equipment c) Knowledge and use of the operation of flow monitoring equipment d) Identifying faults and alarms e) Understanding alarms, priorities, consequences and responses f) Consulting and working with others to investigate, identify and resolve the root cause of problems g) Verifying IT systems are working correctly h) Testing, calibrating and maintaining monitoring instruments and equipment



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
	3	Distinction	 i) Independently conducting fault or route cause analysis to successful conclusion without guidance j) Presenting and sharing findings in a logical and consistent manner k) Technical understanding of process equipment options and practical assessment and application of their suitability for use I) Suggesting improvements in alarm management
4. Drive vehicles equipped with tools and materials to other sites as required S15	1	Pass	 Minimum requirement to evidence at least 1 example, such as a) Full driving licence b) Additional driving category training as required c) Complying with company driving policies and procedures on a regular basis e.g. vehicle checks completed d) Safe loading of vehicles e) Keeping company vehicles maintained and cleaned to a high standard
5. Complete reports and ensure records are maintained for audit and reporting purposes S17	1	Pass	Completion of 4 different types of company records, specific to pathway, as required



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
 6. Work with focus and clear purpose in all weather conditions, covering 24/7 operations, sometimes working alone and safely adapt working methods to reflect changes in working environments S14, S18, SB6 	2	Dist. Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Completing planned work activities accurately and on time in all weather conditions b) Completion of tasks when on their own c) Completion of tasks out of hours d) Compliance with company working time directives e) Consistent dynamic risk assessments on a variety of jobs f) Willingly assisting in emergency situations outside of normal working hours
7. Use hydraulic theories, data and calculations from flow surveys to assess sewer capacity and performance WWNT1	2	Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Knowledge of hydraulic theories and principles used in the wastewater network b) Work with others to identify the root cause of problems and resolve issues c) Application of knowledge to assess network performance and capacity issues d) Identifying trends and potential faults and network issues based on monitoring



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
	3	Distinction	 e) Independently solving problems via root cause analysis and resolving issues f) Identifying and communicating additional and relevant information pertaining to faults identified e.g. site specific information, accessibility issues, traffic sensitivity, out of hours issues g) Independent optimisation of processes showing opex savings or process efficiencies
8. Operate electronic location equipment to locate drains and sewers WWNT2	1	Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Training / certificates / attendance at courses relating to electronic location equipment b) Checking, maintaining and storing the locating equipment in line with company and manufacturer's instructions c) Understanding the abilities and limitations of available equipment d) Using locating equipment in the different modes available e) Identifying mains and services correctly f) Recording mains and services in line with company procedures g) Communicating the types and positions of mains and services to other personnel as required



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
9. Work safely in a variety of locations that may include urban and rural areas, on and off the public highway and may include remote locations and where required act as supervisor of Street Works ensuring the safety of pedestrians, vehicles and site staff WWNT3, WWNT6	1	Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Training / certificates / attendance and successful completion of training courses relating to Street Works or Street works supervision where required b) Arranging permits as required c) Planning, setting out and removing signing lighting and guarding correctly in various situations and scenarios d) Use of lone worker systems & compliance with out of hours procedures e) Company recording and reporting procedures being followed



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
10. Carry out sewer network inspections, including new sewer connections WWNT4	2	Pass	 Minimum requirement to evidence at least 3 'Pass' examples, such as a) Communicating actions to colleagues as required b) Knowledge of company procedures and standards relating to sewer connections c) Knowledge of regulatory and company wastewater network targets and KPIs / ODIs d) Knowledge of hydraulic theories and principles used in the wastewater network e) Application of knowledge to assess wastewater network performance and capacity issues f) Understanding of the responsibilities of each party involved with the sewer connection process g) Identifying trends and potential faults and network issues based on monitoring
	2	Dist.	 h) Independently solving problems via root cause analysis and resolving issues i) Identifying and communicating additional and relevant information pertaining to site details and method of connection



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
11. Respond to customer reported incidents, clear blockages WWNT5	2	Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Training / certificates / attendance at courses relating to customer services b) Knowledge of company operations and maintenance policies and procedures relating to the wastewater network c) Knowledge of where to access company policies and procedures d) Identifying the root cause of problems and resolving issues
	2	Dist.	 e) Positive customer feedback and exceeding customer expectations f) Identifying trends and potential faults and network problems based on monitoring and investigations g) Suggesting improvements to reduce the risk of customer reported incidents
12. Conduct confined spaces operations and ensure equipment is maintained to the required standard WWNT7	2	Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Training / certificates / attendance at courses relating to confined spaces operations b) Considering alternative methods of job completion to avoid confined space entry c) Planning and completion of investigations and operations in confined spaces on the wastewater network d) Testing, calibrating, maintaining and storing instruments and equipment according to company and manufacturer's instructions e) Company recording and reporting procedures being followed



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
	1	Dist.	 f) Showing willingness to upskill and take additional responsibility for the safety of others g) Suggestion of long term solutions to prevent the need for confined space entry
13. Where required, supervise and inspect excavations and backfilling including trench support systems WWNT8	1	Pass	 (Where required) Minimum requirement to evidence at least 2 'Pass' examples, such as a) Training / certificates / attendance at courses relating to excavations and support systems b) Knowledge of company operations policies, standards and procedures relating to excavations and materials used c) Inspecting excavations, backfilling and support systems d) Company recording and reporting procedures being followed e) Liaison with all involved parties regarding inspection findings



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
14. Plan, organise and carry out work and maintenance operations to take account of risks to the environment including high pressure water jetting, flushing and de-silting. WWNT9, WWNT11	2	Pass	 Minimum requirement to evidence at least 3 'Pass' examples, such as a) Training / certificates / attendance at courses relating to high pressure water jetting b) Communicates actions to colleagues as required c) Knowledge of environmental regulations associated with wastewater networks d) Raising and prioritising work requests correctly based on known information e) Application of knowledge of company operations policies and procedures relating to high pressure water jetting f) Planning, organising and carrying out work and maintenance on the wastewater network including High pressure water jetting Flushing De-silting g) Identifying maintenance tasks h) Consideration of isolation and preparation of assets for maintenance activities



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
	2	Distinction	 i) Showing willingness to upskill and take additional responsibility for managing jobs j) Identifying and communicating additional and relevant information pertaining to faults identified e.g. site specific information, accessibility issues, traffic sensitivity, out of hours issues k) Identifying trends and suggesting proactive ways of working i.e. proactive cleansing visits



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
15. Organise and carry out investigations utilising CCTV equipment and report using industry standard coding system WWNT10	2	Pass	 Minimum requirement to evidence at least 2 'Pass' examples, such as a) Training / certificates / attendance at courses relating to CCTV investigations b) Application of knowledge of company operations policies and procedures relating to CCTV investigations c) Planning, organising and carrying out investigations on the wastewater network using CCTV equipment d) Selection, inspection and use of the correct tools and ancillary equipment for the task e) Recognising root causes of problems on the network and implementing solutions f) Raising and prioritising work requests correctly based on known information g) Records, stores and communicates results of CCTV in accordance with company procedures
	2	Distinction	 h) Showing willingness to upskill and take additional responsibility for managing jobs i) Identifying and communicating additional and relevant information pertaining to faults identified e.g. site specific information, accessibility issues, traffic sensitivity, out of hours issues j) Identifying trends and suggesting proactive ways of working



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
 16. Ownership, responsibility and customer focus. Accepts ownership and responsibility for own work to accomplish, an activity safely and on time, whilst maintaining self-discipline working well with others delivering a polite, courteous, professional service B1, B2, B3 	3	Pass	 Minimum requirement to evidence at least 1 'Pass' example, such as a) Accomplishes an activity safely, correctly and on time b) Interacts well with customers, colleagues and members of the public c) Maintains self-discipline, motivation and always works in a professional manner
	1	Dist.	Consistently takes responsibility for own performance and strives to go beyond expectations
17. Health and safety/risk awareness.	3		Minimum requirement to evidence at least 1 'Pass' example, such as a) Demonstrates strict compliance with operational procedures and
Takes responsibility for own and others health and safety, following procedures and policy to think things through whilst being aware of potential		Pass	 processes b) Shows an awareness of the impact of changing circumstances on an activity c) Able to identify and deal appropriately with distractions to enable tasks to be achieved
consequences, hazards, distractions and changing circumstances for an activity. B4	1	Dist.	 d) Consistently monitors and checks information to see if changes to plans are required for an activity



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
 18. Task management. Possesses and enhances appropriate knowledge, skills and experience to perform the duties of the job. Accomplishes goals by accepting and following instructions given by supervisor responding to training allocating and supervising technical and other required tasks 	2	Pass	 Minimum requirement to evidence at least 1 'Pass' example, such as a) Enhances competency through seeking guidance to help accomplish a task. e.g. Guidance may be provided via operational handbook, digital resources or asking someone. b) Allocates and supervises technical and other required tasks to efficiently accomplish goals
B5, B8 19. Results driven.Identifies, organises andeffectively uses resources tocomplete tasks in a timelyfashion, considering cost, quality,safety, security andenvironmental impact.B7	3	Pass	 Minimum requirement to evidence at least 1 'Pass' example, such as a) Identifies, organises and uses resources effectively to complete tasks, b) Considers cost, quality, safety, security c) Considers environmental impact



Section	Max Points	Grade	Portfolio Evidence Requirement from Work Log
20. Sustainability and ethical behaviour. Thinks and behaves ethically and undertakes work in a way that contributes to a positive corporate social responsibility. B9, B10, B11	3	Pass	 Minimum requirement to evidence at least 1 'Pass' example, such as a) Attitude is respectful and positive, concerning the needs or concerns of others. b) Awareness of the needs and concerns of others especially where related to diversity and equality c) Maintains a positive approach to ethical requirements and undertakes work in a way that contributes to sustainable development.



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