**Water Leakage Technician: Work Log Mapping**

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| **Apprentice Name/Employer:** |  |
| **Coverage checked by (provider)** |  |
| **Please ensure this mapping document signposts valid evidence in the Work Log that has been correctly cross-referenced and submit to EUIAS along with the Work Log.** |

| Section | Grade | Portfolio Evidence Requirement from **Work Log****Circle evidence type(s) and enter location in next colum** | Evidence Location (eg. job number/page number) |
| --- | --- | --- | --- |
| 1. Knowledge and application of relevant health and safety, environmental and industry standards and regulations, policies and procedures**K1, K3, S7, S8, S9** | **Pass** | Minimum requirement to evidence at least 2 ‘Pass’ examples, such as1. Training / certificates / attendance at training courses relating to H&S, environmental, regulatory and HR requirements (e.g. Toolbox talks, induction)
2. Knowledge of where to access H&S, environmental and industry information
3. Reporting any faults, loss or issues with equipment
4. Suggesting and implementing appropriate control measures
5. Identifying changing situations in the workplace and taking the appropriate action

Other) |  |
| **Distinction** | 1. Voluntarily engaging with employer to make contributions to health and safety improvements and initiatives
2. Understanding of the wider ranging consequences of not following standards, regulations, policies and procedures
3. Continuously updating knowledge regarding health, safety, environmental and industry standards and procedures
4. Understanding of wider ranging consequences of not working safely and carrying out risk assessments
5. Explaining the need to maintain and store PPE and other safety equipment
6. Explaining the wider ranging consequences of not working appropriately with (including storage and disposal of) chemicals
7. Monitoring safety equipment use and compliance in others
8. Voluntarily taking an active role in completing safety compliance checks for others
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| 2. Knowledge and application of water industry operations and maintenance practices, processes and procedures in water network operations**K2, K4, S10** | **Pass** | Minimum requirement to evidence at least 2 ‘Pass’ examples, such as1. Knowledge of company operations and maintenance policies and procedures and where to find them e.g. sampling procedures, flow monitoring
2. Training / certificates / attendance at training courses relating to operations and maintenance practices, processes and procedures

Other) |  |
| 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** | **Pass** | Minimum requirement to evidence at least 2 ‘Pass’ examples, such as1. Training / certificates / attendance at courses relating to specific equipment, instruments and IT systems
2. Testing and maintaining H&S equipment
3. Knowledge and use of the operation of flow monitoring equipment
4. Identifying faults and alarms
5. Understanding alarms, priorities, consequences and responses
6. Consulting and working with others to investigate, identify and resolve the root cause of problems
7. Verifying IT systems are working correctly

Other) |  |
| **Distinction** | 1. Independently conducting fault or route cause analysis to successful conclusion without guidance
2. Presenting and sharing findings in a logical and consistent manner
3. Technical understanding of process equipment options and practical assessment and application of their suitability for use
4. Suggesting improvements in alarm management
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| 4. Drive vehicles equipped with tools and materials to other sites as required**S15** | **Pass** | Minimum requirement to evidence at least 1 example, such as1. Full driving licence
2. Additional driving category training as required
3. Complying with company driving policies and procedures on a regular basis e.g. vehicle checks completed
4. Safe loading of vehicles
5. Keeping company vehicles maintained and cleaned to a high standard

Other) |  |
| 5. Complete reports and ensure records are maintained for audit and reporting purposes**S17** | **Pass** | Completion of 4 different types of company records, specific to pathway, as required |  |
| 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** | **Pass** | Minimum requirement to evidence at least 2 ‘Pass’ examples, such as1. Completing planned work activities accurately and on time in all weather conditions
2. Completion of tasks when on their own
3. Completion of tasks out of hours
4. Compliance with company working time directives

Other) |  |
| **Distinction** | 1. Consistent dynamic risk assessments on a variety of jobs
2. Willingly assisting in emergency situations outside of normal working hours
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| 7. 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**WLT1** | **Pass** | Minimum requirement to evidence at least 2 ‘Pass’ examples, such as1. Training / certificates / attendance and successful completion of training courses relating to Street Works or Street Works Supervision where required
2. Show correct Signing, Lighting and Guarding deployment on public highway
3. Arranging permits as per company requirements

Other) |  |
| 8. Using technical knowledge identify areas that require further investigation due to leakage deciding on the most appropriate methods to identify and locate sources of leakage**WLT2** | **Pass** | Minimum requirement to evidence at least 2 ‘Pass’ examples, such as1. Knowledge of regulatory and company leakage targets and KPIs / ODIs
2. Identifying trends and potential faults and network leakage issues based on monitoring
3. Work with others to identify the root cause of problems and resolve issues

Other) |  |
| **Distinction** | 1. Independently solving problems via root cause analysis and resolving issues
2. Independent optimisation of processes showing opex savings or process efficiencies
3. Identifying and communicating additional and relevant information pertaining to faults identified e.g. GIS, part numbers, accessibility issues
4. Identifying network improvements to reduce the risk of future leakage issues
5. Developing techniques further to provide useful solutions to supply problems
 |  |
| 9. Use technical knowledge to operate electronic location equipment to identify and locate underground cables and services**WLT3** | **Pass** | Minimum requirement to evidence at least 2 ‘Pass’ examples, such as1. Training / certificates / attendance at courses relating to electronic location equipment
2. Understanding the abilities and limitations of available equipment
3. Checking, maintaining and storing the locating equipment in line with company and manufacturer’s instructions
4. Using locating equipment in the different modes available
5. Identifying mains and services correctly
6. Recording mains and services in line with company procedures
7. Communicating the types and positions of mains and services to other personnel as required

Other) |  |
| **Distinction** | 1. Sharing techniques and imparting knowledge to others outside of direct team e.g. presentations
2. Developing techniques further to provide useful solutions to supply problems
3. Positive customer feedback and exceeding customer expectations
4. The use of innovative techniques to manage and mitigate interruption to supply
 |  |
| 10. Using hydraulic theories and principles carry out valve operations to set up, test, maintain or alter district meter areas**WLT4** | **Pass** | Minimum requirement to evidence at least 3 ‘Pass’ examples, such as1. Understanding of network schematics and the interdependencies of the system
2. Knowledge and application of hydraulic theories and principles in the water distribution network
3. Monitoring, testing, maintaining and altering systems to maintain optimum performance of distribution networks including analysing data to identify trends
4. Completion of risk assessments and method statements relating to networks tasks
5. Communicates actions to colleagues as required

Other) |  |
| **Dist** | 1. Submitting proposals to improve the structure and / or operation of a DMA
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| 11. Use industry principles and measurement to estimate volumes of water lost through leakage**WLT5** | **Pass** | Minimum requirement to evidence at least 2 ‘Pass’ examples, such as1. Knowledge of regulatory and company leakage targets and KPIs / ODIs
2. Leakage campaigns completed and the results obtained
3. Calculations of flow and estimated volumes of water lost through leakage

Other) |  |
| **Dist.** | 1. Over exceeding company targets relating to leakage on a regular and consistent basis
 |  |
| 12. Programme, deploy, retrieve and interpret data from data logging equipment**WLT6** | **Pass** | Minimum requirement to evidence at least 3 ‘Pass’ examples, such as1. Producing data trends from information gathered
2. Training / certificates / attendance at courses relating to data logging equipment
3. Using company data to detect different logging points including permanent and temporary points
4. Logging data relating to:
	* Flow
	* Pressure
5. Using different types of logging devices
6. Programming the devices to record all required data
7. Installing and deploying logging devices in the network without causing impact to customers
8. Retrieving logging devices from the network
9. Retrieving and correctly interpreting data from loggers
10. Maintaining and storing logging equipment correctly

Other) |  |
| 13. Apply procedures and their control measures to the network to minimise the risk of interruption of supplies to customers**WLT7** | **Pass** | Minimum requirement to evidence at least 2 ‘Pass’ examples, such as1. Knowledge of company operations and maintenance policies and procedures relating to the water distribution network
2. Knowledge of where to access company policies and procedures
3. Use of all available techniques to manage and mitigate interruption to supply
4. Applying company policies and procedures in the water distribution network to minimise the risk of interruption of supplies
5. Identification of different types of valves and equipment in the network
6. Completion of risk assessments and method statements relating to networks tasks

Other) |  |

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| --- | --- | --- | --- |
| **14.** 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** | **Pass** | a) Accomplishes an activity safely, correctly and on timeb) Interacts well with customers, colleagues and members of the publicc) Maintains self-discipline, motivation and always works in a professional manner |  |
| **Dist.** | d) Consistently takes responsibility for own performance and strives to go beyond expectations |  |

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| **15.** Health and safety/risk awareness. Takes responsibility for own and others health and safety, following procedures and policy to think things through whilst being aware of potential consequences, hazards, distractions and changing circumstances for an activity.**B4** | **Pass** | a) Demonstrates strict compliance with operational procedures and processesb) 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 |  |
| **Dist.** | d) Consistently monitors and checks information to see if changes to plans are required for an activity |  |

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| **16.** 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

**B5, B8** | **Pass** | 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 |  |

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| --- | --- | --- | --- |
| **17.** Results driven. Identifies, organises and effectively uses resources to complete tasks in a timely fashion, considering cost, quality, safety, security and environmental impact.**B7** | **Pass** | a) Identifies, organises and uses resources effectively to complete tasks,b) Considers cost, quality, safety, securityc) Considers environmental impact |  |

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| --- | --- | --- | --- |
| **18.** 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** | **Pass** | 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 equalityc) Maintains a positive approach to ethical requirements and undertakes work in a way that contributes to sustainable development. |  |