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Standard in development
L3: Water industry asset maintenance technician
Version 0.0

Title of occupation

Water industry asset maintenance technician

UOS reference number

ST1404

Core and options

Yes

All Water industry asset maintenance technician - mechanical Water industry asset maintenance technician - electrical Water industry asset maintenance technician - instrumentation, control and automation

Option title/s

Water industry asset maintenance technician - mechanical

Water industry asset maintenance technician - electrical

Water industry asset maintenance technician - instrumentation, control and automation

Level of occupation

Level 3

Occupational maps data

Route: Engineering and manufacturing
Pathway: Maintenance, installation and repair
Cluster: Service, repair and/or overhaul operative or technician

Typical duration of apprenticeship

36 months

Target date for approval

01/01/0001

Resubmission

No

Would your proposed apprenticeship standard replace an existing framework?

No

Does professional recognition exist for the occupation?

Yes

Regulated occupation

Is this a statutory regulated occupation?

No

Occupation summary

This occupation is found in the water industry. Water industry asset maintenance technicians typically work for water companies regulated by the Water Services Regulation Authority (Ofwat). They may also work for companies that subcontract to regulated water companies. These organisations range in size from small to large. They provide a supply of clean, fresh drinking water to houses and businesses in their area 365 days a year. Also, they take wastewater from their customers, clean it to the required standard and return it to the natural environment. This is a highly regulated industry as the failure of either of these processes could result in health and environmental concerns. Technicians normally work on equipment and plant used for either water treatment or wastewater recycling as this helps maintain health and hygiene. They work in a range of facilities such as pumping stations, water treatment plants and sewage treatment works. They may also work on assets located within the raw water or sewage network. This is a core and options apprenticeship proposal. An apprentice must be trained in the core and one option. The

options are: Option 1. Water industry maintenance technician - mechanical Option 2. Water industry maintenance technician - electrical Option 3. Water industry maintenance technician – instrumentation, control and automation

The broad purpose of the occupation is to keep the range of equipment used for water treatment or wastewater recycling operating safely and efficiently. Making sure houses and businesses benefit from a safe, continuous supply of clean water and wastewater quality is maintained. Water industry asset maintenance technicians travel between sites to carry out planned maintenance work. They work safely, considering process implications when isolating equipment to be worked on. They then carry out installations, modifications, repairs and servicing. Once complete, they test the equipment to make sure it is working properly before being brought into service. They carry out breakdown maintenance on large industrial equipment, investigating equipment failures and diagnosing complex faults. They plan and carry out repairs as quickly and efficiently as possible. Breakdowns can happen at any time and can affect water supply and wastewater recycling processes. Because of this, water industry asset maintenance technicians normally work shifts and undertake standby duties outside of regular working hours. Mechanical technicians work on items of electromechanical plant such as pumps, valves, gas dosing equipment, pipework, and a range of chemical dosing pumps. Electrical technicians work on industrial electrical equipment such as electrical motors, variable speed drives (VSDs), electrical panels, motor control centres and instrumentation such as Programmable Logic Control (PLC). Instrumentation, Control and Automation (ICA) technicians maintain, install, calibrate and test equipment used for monitoring water processes. They write and modify control software for the maintenance of ICA systems such as Supervisory Control and Data Acquisition (SCADA), PLCs, Human Machine Interfaces (HMIs) and intelligent networking systems. All technicians make sure that data quality is maintained, design and installations are to the latest standards and provide technical support for system users.

In their daily work, an employee in this occupation interacts with technicians from other disciplines such as systems, mechanical and electrical technicians to solve non-routine problems as part of a multi-disciplinary team. They may also work with subcontractors. They could also communicate with members of the general public and business owners when working on assets located in or near public places.

An employee in this occupation will be responsible for making sure plant and equipment for water recycling or water treatment operates safely and efficiently. Technicians must consider behavioural safety. This means they must follow safe systems of work. They must proactively monitor their work environment to manage the risks that their work can pose to themselves, their colleagues and members of the public. Including the risk of pollution incidents and damage to the environment. They support their employers to meet sustainability commitments. Working to optimise processes, assets and systems to reduce the impact the industry has on the environment. Well maintained equipment saves energy. It means fewer leaks and makes sure drinking water and waste water meet the required standard. Technicians may also manage a budget, making sure spare parts are available where and when they are needed.

Typical job titles

Ica technician Maintenance technician Maintenance technician electrician Mechanical asset technician Mechanical maintenance technician

Are there any statutory/regulatory or other typical entry requirements?

No

Core occupation duties

DUTY	KSBS
Duty 1 Plan and prepare the work environment, tools, equipment and consumables for maintenance activities, considering process implications, environmental impact and sustainability requirements (discharges, waste).	K1 K2 K3 K4 K5 K6 K7 K8 K9 K10 K11 K12 K14 S1 S2 S3 S5 S6 S10 S11 S13 B1 B2 B5
Duty 2 Maintain workplace health, safety, security and environment. Comply with organisational process safety requirements to ensure the safety and quality of the product.	K1 K2 K3 K4 K5 K6 K7 K8 K9 K10 K12 K16 K17 K20 S1 S2 S3 S4 S5 S7 S10 S11 S13 S15 B1 B5 B6
Duty 3 Conduct inspections of process areas and produce condition monitoring reporting. Use trends, data and drawings to identify faults and optimise systems, processes and assets.	K4 K5 K7 K18 K22 S9 S10 S11 B2 B6
Duty 4 Provide technical information, advice and work updates to colleagues and other stakeholders.	K4 K5 K19 K20 K21 K22 S8 S10 S11 B4 B5
Duty 5 Complete digital or paper-based maintenance documentation or records, for example, service records and test results.	K5 K15 K19 K22 S8 S10 B4 B5
Duty 6 Support continuous improvement activities.	K10 K18 K20 K21 S3 S5 S9 S10 S11 S12 S14 B2 B3 B4 B5 B6 B7
Duty 7 Maintain tools and equipment used for water industry maintenance tasks.	K5 K13 S6 B1 B6

Option duties

Water industry asset maintenance technician - mechanical duties

DUTY	KSBS
Duty 8 Assess installed equipment to determine if it is fit for purpose and select new components required for maintenance tasks.	K23 K28 K33 S24

DUTY	KSBS
Duty 9 Isolate mechanical equipment in line with safety requirements, including organisational safe isolation policies.	K23 K24 S1 S10 S11
Duty 10 Install or modify mechanical equipment.	K23 K24 K25 K27 K28 K31 K33 S16 S17 S26 S28 S29 S30 S31
Duty 11 Carry out fault finding on industrial mechanical equipment.	K23 K28 K34 S18 S25 S30 S31
Duty 12 Repair industrial mechanical equipment.	K23 K24 K26 K27 K28 K31 K32 K33 K34 S17 S18 S28 S29 S30
Duty 13 Carry out planned maintenance on industrial mechanical equipment.	K23 K24 K26 K27 K28 K31 K32 K33 K34 S18 S19 S20 S21 S22 S27 S28 S29 S31
Duty 14 Respond to breakdowns of complex mechanical assets and carry out reactive maintenance to restore operation.	K23 K24 K27 K28 K32 K33 K34 S18 S19 S20 S21 S23 S29 S31
Duty 15 Inspect and test mechanical installations and equipment.	K23 K29 S20 S22 S24 S26 S31
Duty 16 Commission and decommission mechanical equipment.	K23 K25 K33
Duty 17 Fabricate new industrial components, plant and equipment where appropriate, using fabrication techniques. For example pipework and brackets.	K30 K31 S20 S26

Water industry asset maintenance technician - electrical duties

DUTY	KSBS
Duty 18 Isolate electrical equipment in line with safety requirements, including organisational safe isolation policies.	K38 S39
Duty 19 Modify electrical circuits.	K36 K37 K39 K40 K41 K43 K46 K47 S39
Duty 20 Install or modify electrical equipment and cabling using tools and equipment, for example flow meters.	K35 K36 K38 K39 K40 K41 K42 K43 K46 K47 K48 S32 S33 S35 S38 S39 S41 S42 S44
Duty 21 Carry out fault finding on industrial electrical equipment.	K39 K40 K41 K43 K46 K47 K49 S33 S37 S38 S39 S41 S43 S44
Duty 22 Repair industrial electrical equipment.	K36 K38 K39 K40 K42 K43 K45 K46 K47 K48 K49 S33 S34 S35 S38 S39 S41 S43 S44
Duty 23 Carry out planned maintenance on industrial electrical equipment.	K36 K38 K39 K40 K42 K43 K45 K46 K47 K48 K49 S33 S34 S38 S39 S41 S43 S44

DUTY	KSBS
Duty 24 Respond to breakdowns of complex electrical assets and carry out reactive maintenance to restore operation.	K36 K38 K39 K40 K42 K43 K45 K46 K47 K48 K49 S33 S34 S35 S37 S38 S39 S43 S44
Duty 25 Inspect and test electrical installations and equipment.	K36 K39 K40 K43 K44 K47 S32 S33 S36 S38 S40
Duty 26 Commission and decommission electrical equipment.	K35 S32 S33 S38 S41 S44

Water industry asset maintenance technician - instrumentation, control and automation duties

DUTY	KSBS
Duty 27 Contribute to the design and modification of ICA systems.	K50 K56 K60 K61 K63 K64 S54 S60
Duty 28 Isolate instrumentation, control and automation equipment in line with safety requirements, including organisational safe isolation policies.	K55 S57
Duty 29 Install or modify and commission ICA hardware and software.	K50 K53 K55 K56 K57 K60 K61 K63 K64 K66 S45 S46 S54 S56 S57 S58 S59 S62
Duty 30 Carry out fault finding, calibration and maintain data quality of ICA equipment.	K50 K51 K53 K54 K56 K57 K58 K61 K62 K63 K64 K65 K67 S45 S48 S49 S52 S55 S56 S57 S61 S62 S63
Duty 31 Repair or replace ICA equipment.	K50 K52 K53 K54 K55 K57 K61 K63 K64 K65 S45 S47 S49 S52 S54 S56 S57 S58 S62
Duty 32 Carry out planned and reactive maintenance on ICA equipment.	K50 K51 K53 K54 K63 K65 S45 S48 S49 S51 S52 S54 S56 S57 S62
Duty 33 Program industrial control equipment and software.	K63 K65 K66 S47 S48 S50 S56 S59 S60 S62
Duty 34 Inspect and test software and equipment before commissioning.	K59 K65 S45 S48 S53 S59 S61
Duty 35 Commission and decommission ICA equipment.	S45 S46 S47 S54 S56

KSBs

Knowledge

K1: Overview of water and wastewater industries. Regulators and stakeholders: Drinking Water Inspectorate (DWI), Water Services Regulation Authority (OFWAT), Consumer Council for Water (CCWater), Environment Agency (EA), Health and Safety Executive (HSE), and Department for Environment, Food and Rural Affairs (Defra) - roles and powers.
K2: Awareness of water industry legislative and regulatory requirements. Materials in contact (WRAS approved), food grade lubricants.
K3: Awareness of water and waste water process theory from source to recycling. Abstraction processes. Water treatment and disinfection processes. Water distribution, boosters and service reservoirs. Wastewater treatment, networks and pumping stations. Effluent discharges and parameters.
K4: Chemical dosing systems for water and wastewater. Risks, mitigations and safe systems of work. Equipment and storage to include pumps, valves and dosing lines.
K5: Water industry maintenance technician role, responsibilities, limits of autonomy and reporting channels.
K6: Awareness of health and safety regulations, relevant to the occupation and the technician's responsibilities. CDM regulations. Control of Substances Hazardous to Health (COSHH). Display Screen Equipment. Due diligence. Electricity at work regulations (EaWR). Emergency evacuation procedures. Health and Safety at Work Act – responsibilities. Isolation and emergency stop procedures. Legionella. Lifting Operations and Lifting Equipment Regulations (LOLER). Lone working. Management systems of occupational health and safety ISO 45001. Manual handling. Near miss reporting. Noise regulation. Provision and use of Work Equipment Regulations (PUWER). Reporting of Injuries, Diseases, and Dangerous Occurrences Regulations (RIDDOR). Risk assessments. Safety equipment: guards, signage, fire extinguishers. Situational awareness. Slips, trips and falls. Types of hazards. Personal Protective Equipment (PPE). Working in confined spaces. Pressure Systems Safety Regulations (PSSR).
K7: Safe systems of work.
K8: Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). ATEX compliance (safety requirements of the workplace and equipment used in explosive atmospheres). Working in and around explosive atmospheres. Hazardous areas (DSEAR zones). PPE. Intrinsically safe tools for working in explosive atmospheres. Exposure limits. Necessary forced pre-ventilation. Gas monitoring equipment.
K9: Water industry sustainability and environmental principles and requirements. Permits and operation conditions for water extraction. Requirements for disposing of discharges and waste. Monitoring emissions to air, land and water (MCERTS). Waste Electrical and Electronic Equipment (WEEE) Regulations.
K10: The impact water industry operations have on the environment.
K11: Planning, prioritising, work scheduling and time management approaches.
K12: Asset security requirements.
K13: Tools and equipment used in maintenance and repair tasks. Operational checks, calibration, storage and maintenance requirements.
K14: Maintenance strategies and techniques: planned, preventative, predictive and reactive methods and their frequency.
K15: Written communication and documentation: methods and requirements - electronic and paper. Service records. Test results.
K16: Personal hygiene risks and requirements for working on a water treatment or a wastewater treatment site.
K17: Water industry process safety and process risk assessments. Incidents and emergency situations (internal and external): pollution, loss of process, security, weather, and accidents: their potential impact. Incident management and procedures. The risk of pollution and untreated water in supply.

K18: Continuous improvement techniques. Asset and process optimisation.
K19: Principles of equity, diversity, and inclusion in the workplace. Unconscious bias.
K20: Team working principles.
K21: Non-written communication methods and techniques. Engineering maintenance terminology.
K22: Information technology and digital: digital interfaces, email, Management Information Systems (MIS), spreadsheets, presentation, word processing, virtual communication, learning platforms, work collaboration platforms. General Data Protection Regulation (GDPR). Cyber security.
K23: Mechanical: Mechanical theories and principles; pneumatics, hydraulics and pressure systems. Torque, gearbox ratios, flow ratios, step-down ratios. Machine specifications.
K24: Mechanical: Safe isolation and depressurisation of mechanical plant and equipment in preparation for repair and maintenance work. Permits, safe isolation policies, lock off systems.
K25: Mechanical: Practices and techniques for the installation, commissioning and decommissioning of mechanical systems and equipment.
K26: Mechanical: Repair and maintenance of machinery, equipment and components. Practices and techniques. Removing and replacing parts, set up, adjustment, cleaning and lubricating.
K27: Mechanical: Tools, equipment and components used for the installation, repair and maintenance of mechanical systems. Application, operation, care and calibration requirements.
K28: Mechanical: Fault finding, problem solving and rectification techniques. Aids and diagnostic equipment.
K29: Mechanical: Inspection, monitoring and testing requirements and techniques.
K30: Mechanical: Basic fabrication, welding and thermal cutting processes for mechanical components and structures.
K31: Mechanical: Bench fitting techniques.
K32: Mechanical: Types and application of machinery. For example: lathes, pillar drills, milling machine, threading machine, mechanical saws. Machine speeds for different materials.
K33: Mechanical: Design specifications, plans, drawings and manufacturer's instructions.
K34: Mechanical: Round numbers, scientific notation, percentages and ratios. Area, perimeter, volume and surface area. Scales, tables, graphs and charts. Trigonometry and Pythagoras' Theorem. Engineering formulae. Sequence of operations. Conversions and calculations.
K35: Electrical: Practices and techniques for the installation, commissioning and decommissioning of cabling and electrical equipment.
K36: Electrical - Electrical theories and principles. Basic concepts of electricity. Ohms law, Kirchoff's law, circuits, conductors and insulators, basic AC theory, complex numbers, resistance and impedance - capacitive and inductive, transformers, polyphase AC circuits, power factor. Harmonics.
K37: Electrical: Design and modification of electrical circuits.
K38: Electrical: Safe isolation of plant and electrical equipment in preparation for repair and maintenance work. Permits, safe isolation policies, lock off systems.
K39: Electrical - Types of intelligent control equipment. PLCs, HMIs, Intelligent starters, Variable Speed Drives (VSDs).
K40: Electrical - Basic telemetry signals and outstations.
K41: Electrical - Fault finding, problem solving and rectification techniques, aids and diagnostic equipment.

K42: Electrical: Tools, equipment and components used for the installation, repair and maintenance of electrical systems. Application, operation, care and calibration requirements.
K43: Electrical: Design specifications, plans, drawings and manufacturer's instructions.
K44: Electrical: Inspection and testing requirements and techniques.
K45: Electrical - Repair and maintenance of equipment and components. Practices and techniques. Removing and replacing parts.
K46: Electrical: Awareness of wiring regulations - purpose and importance.
K47: Electrical: Electrical drawings.
K48: Electrical - Cable types and termination methods. Specifications and application.
K49: Electrical: Round numbers, scientific notation, percentages and ratios. Area, perimeter, volume and surface area. Scales, tables, graphs and charts. Trigonometry and Pythagoras' Theorem. Engineering formulae. Sequence of operations. Conversions and calculations.
K50: ICA: Electrical theories and principles. Basic concepts of electricity. Ohm's law, Kirchoff's law, circuits, conductors and insulators, basic AC theory, complex numbers, resistance and impedance - capacitive and inductive, transformers, polyphase AC circuits, power factor.
K51: ICA: Practices and techniques for the installation, commissioning and decommissioning of ICA equipment.
K52: ICA: Repair and maintenance of instruments, controllers, sensors, probes, attachments, cabling, meters and display units. Practices and techniques.
K53: ICA: Instrumentation and control device operational principles: flow, level, pressure, analysers, transducers, transmitters, gauges. Proportional–integral–derivative controller.
K54: ICA: Open and closed loop systems. First and second order control systems.
K55: ICA: Safe isolation of plant and ICA equipment in preparation for repair and maintenance work. Permits, safe isolation policies, lock off systems.
K56: ICA: Tools, equipment and components used for the installation, repair and maintenance of control systems. Application, operation, care and calibration requirements.
K57: ICA: Field instrumentation, communication devices and equipment used in system and process control. To include: Human Machine Interfaces (HMIs), Programmable Logic Controllers (PLC), Supervisory Control and Data Acquisition (SCADA) systems, back up procedures. Configuration procedures and requirements.
K58: ICA: Fault finding, problem solving and rectification techniques. Aids and diagnostic equipment.
K59: ICA: Inspection and testing requirements and techniques.
K60: ICA: Design specifications, plans, drawings and manufacturer's instructions.
K61: ICA: Awareness of wiring regulations - purpose and importance.
K62: ICA: Configuration and calibration procedures and requirements. Precision and tolerance.
K63: ICA: Round numbers, scientific notation, percentages and ratios. Area, perimeter, volume and surface area. Scales, tables, graphs and charts. Trigonometry and Pythagoras' Theorem. Engineering formulae. Sequence of operations. Conversions and calculations.
K64: ICA: Cable types and termination methods. Specification and application.
K65: ICA: Telemetry signals and outstations configuration.
K66: ICA: Software and logic used within the control system.
K67: ICA: Data analysis and monitoring techniques.

Skills

S1: Work in line with water industry standards and regulatory requirements.

S2: Plan maintenance work, taking into consideration: process safety and following process risk assessments; the impact work has on the environment and on water treatment or wastewater recycling.
S3: Identify, organise and use resources to complete tasks, with consideration for process, cost, quality, safety, security and environmental impact.
S4: Follow health and safety procedures and safe systems of work in compliance with regulations and standards, including PPE.
S5: Follow sustainability principles. Segregate waste for recycling, reuse or disposal.
S6: Select, check store and maintain equipment and tools.
S7: Restore the work area on completion of the activity.
S8: Communicate in writing and record or enter information - paper based or electronic. For example, job sheets, risk assessments, equipment service records, test results, handover documents and manufacturers' documentation, asset management records, work sheets, checklists, waste environmental records and legal reporting requirements.
S9: Collect, interpret and use data and information using information and digital technology. Comply with GDPR and cyber security regulations and policies.
S10: Apply equity, diversity and inclusion policies and practices.
S11: Apply teamworking principles.
S12: Apply continuous improvement techniques. Devise suggestions for improvement.
S13: Communicate with and provide support, technical advice, work updates and information to technical and non-technical colleagues and other stakeholders.
S14: Carry out and record learning and development activities.
S15: Follow security procedures. For example, site access, document classification, and securing assets.
S16: Mechanical: Complete commissioning and decommissioning for mechanical equipment.
S17: Mechanical: Assemble, position and install mechanical equipment or components.
S18: Mechanical: Disconnect and remove mechanical equipment or components.
S19: Mechanical: Apply repair and maintenance practices and techniques.
S20: Mechanical: Use tools, equipment and components for installation, repair and maintenance tasks.
S21: Mechanical: Isolate plant and equipment in preparation for maintenance work, including permits, safe isolation policies, lock off systems and depressurisation of pressurised systems.
S22: Mechanical: Inspect and test mechanical systems and components.
S23: Mechanical: Carry out fault finding and rectification techniques using aids and diagnostic equipment.
S24: Mechanical: Carry out inspection and monitoring of mechanical systems and equipment.
S25: Mechanical: Identify a problem, investigate problem to identify the underlying cause. Identify a solution.
S26: Mechanical: Use and interpret manufacturer’s instructions, design specifications, plans and drawings.
S27: Mechanical: Apply basic fabrication, welding and thermal cutting processes for mechanical components and structures.
S28: Mechanical: Apply bench fitting techniques.
S29: Mechanical: Use machinery. For example, lathes, pillar drills, milling machine, threading machine, mechanical saws.
S30: Mechanical: Use mechanical theories and principles.
S31: Mechanical: Use mathematical theory.
S32: Electrical: Install, commission and decommission cabling and electrical equipment.

S33: Electrical: Use electrical theories and principles.
S34: Electrical: Apply repair and maintenance practices and techniques.
S35: Electrical: Modify electrical circuits.
S36: Electrical: Interrogate different types of intelligent control equipment. To include, PLCs, HMIs, Intelligent Starters, Variable Speed Drives (VSDs).
S37: Electrical: Carry out fault finding and rectification techniques using aids and diagnostic equipment.
S38: Electrical: Use tools, equipment and components for installation, repair and maintenance.
S39: Electrical: Isolate equipment in preparation for maintenance work, including permits, safe isolation policies and lock off systems.
S40: Electrical: Inspect and test electrical installations and equipment.
S41: Electrical: Use electrical drawings.
S42: Electrical: Install different cable types and terminate to their specifications and applications.
S43: Electrical: Use mathematical theory.
S44: Electrical: Identify a problem, investigate problem to identify the underlying cause. Identify a solution.
S45: ICA: Use electrical theories and principles.
S46: ICA: Install, commission and decommission ICA equipment.
S47: ICA: Configure instrumentation and control devices.
S48: ICA: Calibrate and monitor open and closed loop systems.
S49: ICA: Use tools, equipment and components for installation, repair and maintenance.
S50: ICA: Configure field instrumentation, communication devices and equipment used in system and process control.
S51: ICA: Apply repair and maintenance practices and techniques to instrumentation and control equipment, control systems and cabling.
S52: ICA: Carry out fault finding techniques for instrumentation and control equipment. Use diagnostic equipment.
S53: ICA: Inspect and test ICA equipment.
S54: ICA: Use and interpret design specifications, plans, drawings and manufacturer's instructions.
S55: ICA: Calibrate ICA equipment.
S56: ICA: Use mathematical theory.
S57: ICA: Isolate equipment in preparation for maintenance work, including permits, safe isolation policies and lock off systems.
S58: ICA: Install different cable types and terminate to their specifications and applications.
S59: ICA: Test telemetry signals and configure outstations.
S60: ICA: Use software to produce programs to be used within the control system.
S61: ICA: Assess condition of equipment. Identify action required.
S62: ICA: Identify a problem, investigate problem to identify the underlying cause. Identify a solution.
S63: ICA: Analyse and monitor data to make evidence based changes if required.

Behaviours

B1: Take responsibility for and proactively promote health and safety for self, others, site and assets.
B2: Considers the environment and sustainability.
B3: Seek to improve ways of working.
B4: Promote inclusivity in the workplace with colleagues, stakeholders, and customers.

B5: Collaborate and promote teamwork across disciplines.
B6: Proactively identifies issues and takes responsibility for actions.
B7: Committed to maintaining and enhancing competence of self and others through Continued Professional Development (CPD).

Qualifications

English and Maths

Apprentices without level 2 English and maths will need to achieve this level prior to taking the End-Point Assessment. For those with an education, health and care plan or a legacy statement, the apprenticeship's English and maths minimum requirement is Entry Level 3. A British Sign Language (BSL) qualification is an alternative to the English qualification for those whose primary language is BSL.

Does the apprenticeship need to include any mandated qualifications in addition to the above-mentioned English and maths qualifications?

No

Professional recognition

This standard aligns with the following professional recognition:

- Institute of Water (TBC) for EngTech (TBC)

Consultation

Progression Routes

ST0453 Water treatment technician L3
ST1291 Water industry treatment process technician L3
ST0999 Lead engineering maintenance technician v1.0 L4

Supporting uploads

Mandatory qualification uploads
Mandated degree evidence uploads
Professional body confirmation uploads

Involved employers

Severn Trent, Wessex Water, Thames Water, Yorkshire Water, Anglian Water, Southern Water, United Utilities, Southeast Water, Severn Trent Water

Subject sector area

4.1 Engineering