Government Funded Management Apprenticeships for Water Treatment Technicians



LEVEL

3

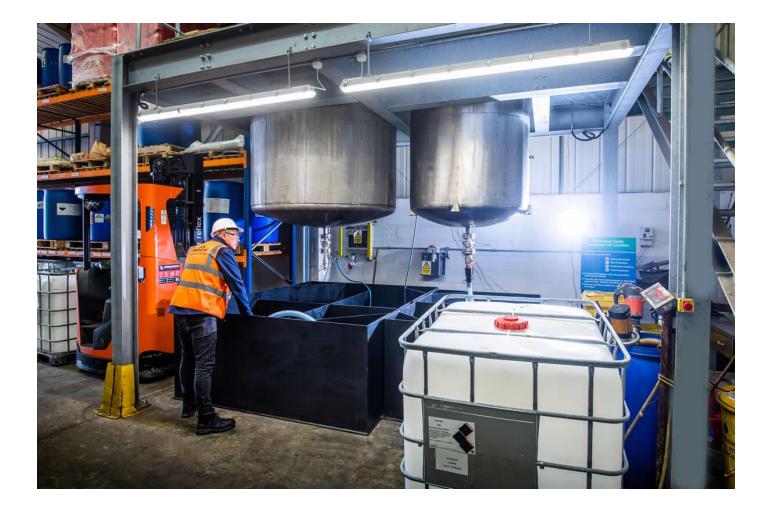
FUNDED THROUGH THE APPRENTICESHIP LEVY!

Fully supported by industry leading expert tutors, comprehensive learning materials and a sophisticated learning management system.

The Level 3 Water Treatment Technician Apprenticeship has Government funding of up to £15,000.00 per person.



Level 3 Apprenticeship for Water Treatment Technicians



About the Programme

The programme - PO453 Water Treatment Technician - is delivered over 24-30 months combining highly interactive faceto-face and virtual workshops, progressive work-based assessments and improvement projects, individual tutoring and mentoring. It will be delivered by some of the world's leading experts in water treatment.

During this time the employer, apprentice and Training Provider must demonstrate the achievement of 6 hours per week OTJT (Off the Job Training).

The standard is at Level 3. To take part you apprentices have functional skills in English and Maths. Apprentices without level 2 English and maths GCSE at grade C or above, will need to achieve this level as soon as possible during the programme - and certainly prior to taking the end-point assessment.

If Functional Skills are required, employers must provide extra time for this. Government Funding of £742 per learner is provided – funding beyond this point required to achieve the required GCSE standards must be funded by the employer.

Who is the programme for?

The Level 3 Water Technician's Apprenticeship is the professional qualification for Water Treatment Technicians.

They are responsible for the development, installation and maintenance of water treatment programmes for water systems in industrial and commercial buildings, hotels and institutional premises including colleges, schools, hospitals and care homes.

What's in the Programme?

The core Knowledge, Skills & Behaviours (KSBs) required to do any technician role in Water Treatment - plus the additional Knowledge and Skills required for the following specific roles (Pathways):

- Water Treatment Technician
- Water Treatment Equipment Technician
- Legionella Risk Assessor
- Water Treatment Operations Supervisor

Pathways, Knowledge & Skills

These are shown below for all roles:

Water Treatment Technician/Water Treatment Equipment Technician

Pathways	
Water Treatment Technician	Water Treatment Equipment Technicians
	They are responsible for specifying equipment to be used
Water treatment technicians are responsible for surveying	for water treatment processes or to be used within a
the construction of water systems and the specific use of	water treatment programme.
water within these systems.	
	They will recommend equipment based on local water
The Technician will then advise and recommend suitable	conditions, water application and site installation
treatment programmes, both chemical and physical, to	conditions.
minimise corrosion, scale and microbiological growth in	
order to maximise the system/process efficiency and	They install equipment on customer's sites, service and
system plant life.	maintain equipment and troubleshoot equipment
	installations.
They assess the performance of treatment programmes	
through on-site testing and laboratory analysis and advise	Equipment can include softeners, reverse osmosis,
on system and programme improvements.	electro-deionisation, demineralisation, chemical dosing
	and control, water pumps, and filters.

Knowledge	Knowledge
Water Treatment Technician	Water Treatment Equipment Technicians
 Understand the water treatment requirements of specific water systems e.g., steam boilers, cooling towers etc. Understand the treatment options available for specific water systems e.g., pre-treatment plant, chemical treatment etc. Acquire the knowledge required to assess the performance of water treatment programmes and to recommend improvements 	 Understand the water treatment requirements of specific water applications and processes e.g., water used for pharmaceutical manufacturing, chemical treatment dosing Understand the equipment options available and their relevant benefits Acquire the knowledge required to install, service and maintain specific items of equipment relevant to their job role
Skills	Skills
 Design, specify and recommend chemical water treatment programmes taking into account water supply quality and system operating conditions Evaluate the suitability of alternative physical and chemical water treatment programmes for specific water systems and applications Give presentations and demonstrations to customer/site personnel regarding treatment recommendations and control requirements Assess the performance of a water system treatment programme and provide recommendations for improvement Organise, construct, manage and report review meetings with customers/site personnel 	 Complete water system surveys and produce system diagrams appropriate to the presentation of system data e.g., the layout of the treatment plant within the system location Evaluate and design appropriate water treatment equipment installations Install, commission and service water treatment equipment Assess the performance of a water system treatment programme Supervise a team and manage the health, safety and environment of a water treatment equipment installation and/or operation

Legionella Risk Assessor/Water Treatment Operations Supervisor

Pathways	
Legionella Risk Assessors	Water Treatment Operations Supervisors
Legionella Risk Assessors assess the public health risks associated with water systems and provide detailed recommendations for a design revision, remedial works, operating parameters, improvement actions, control plans and management schemes.	Water Treatment Operations Supervisors oversee water treatment projects on a customer's site involving teams of operatives, sub-contractors and other specialised services. They are responsible for developing work plans, assessing the work task risks involved, including chemical handling,
Systems can include evaporative cooling systems, hot & cold water, spa, therapy and swimming pools, washing/cleaning facilities and process water applications.	and producing method statements to minimise the risks of the project. Projects can include pre-commission cleaning in new or refurbished buildings, closed system flushing, cooling tower cleaning, potable water disinfection, and acid/alkali cleaning.

Knowledge	Knowledge
Legionella Risk Assessors	Water Treatment Operations Supervisors
 Know and understand any regulatory requirements and guidance appropriate to the water systems being assessed Understand the principles of risk assessment and the identification of hazards in water systems Understand the application of water treatment programmes for specific water systems Understand the principles of design for water systems and water treatment equipment e.g., water tanks, calorifiers, softeners etc. Acquire the knowledge required to recommend remedial actions, optional system improvements and management requirements. 	 Understand the water treatment requirements of specific water systems e.g., drinking water systems, process water systems etc. Understand chemical cleaning and disinfection programme options for specific water systems and processes Acquire the knowledge required to assess the performance of water treatment cleaning/disinfection operation Understand the risks involved, the relevant Health and Safety regulations associated with the project and the specific requirements of the project site
Skills	Skills
 Carry out site/system investigations and surveys Prepare water system diagrams and drawings Assess the comparative risk of Legionellosis presented by specific water systems Identify remedial, improvement and management actions required to minimise any risk presented Prepare and present the assessment report findings to customer/site personnel Review the implementation of remedial actions recommended in the risk assessment e.g., pipework changes, insulation and review the employment of management controls e.g., temperature monitoring programmes, system analysis results 	 Complete water system surveys and produce system diagrams appropriate for the direction and management of a cleaning/disinfection project Understand and apply chemical cleaning and disinfection programmes for specific water systems Install, commission and service temporary operations equipment required to complete the project e.g., flushing pump stations, side stream filtration, cooling tower packing Assess the performance and progress of a water treatment cleaning/disinfection operation by sample analysis and make adjustments to the programme as required Supervise a team of Water Treatment Operatives and any associated sub-contractors Produce a method statement and control scheme to manage the health, safety and environment during the various phases of a project

Joining criteria

Employers can set their own criteria for learners and can take advantage of Apprenticeship Levy funding for this Level 3 programme.

NOTE: Minimum entry requirements to qualify for levy funding are level 2 English and Maths at GCSE. A skills audits and interview process are mandatory.

To qualify for levy funding learners must have been a UK/EEA/EU resident for the last three years.

Making the Most of the Apprenticeship Levy

These apprenticeships are specifically designed to qualify existing water treatment staff, <u>regardless of</u> <u>their age or length of service</u>. There is no upper age limit.

If your organisation's payroll is over £3m per annum the government will already deduct a levy of 0.5% of your payroll through HMRC which will be held in a Digital Account.

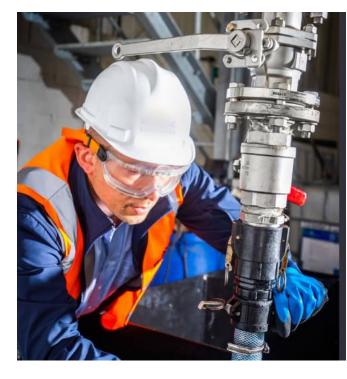
Smaller organisations can also draw down apprenticeship funding.

We will advise your organisation on the whole process, manage and deliver the programme to the standards required by the Educational and Skills Funding Agency, Ofsted and the awarding body for the apprenticeship - the Water Treatment Association

Assessment

Apprenticeships are assessed against the following criteria:

- Knowledge Assessed through progressive assessments which are work focussed
- Skills Assessed through uploading evidence of work
- Behaviours assessed through assignments
- End point assessment (EPA) Assessed via a review of uploaded work, a knowledge test, a presentation with questions and a professional discussion.

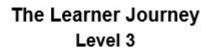


Tutorial support

In addition to scheduled modules, individual tutor support will be available throughout the programme - accessed through the Learning Management System and your Client Services Manager at Cherith Simmons Learning & Development LLP.

You will receive access to the Learning Management System on acceptance onto the programme and will be provided with a detailed Learner Journey to guide you through the entire programme.

Learner Journey and Handbook





This is where you will find all the answers!

Water Treatment Technician Apprenticeship

Incorporating: Water Treatment Technician, Water Treatment Equipment Technician, Legionella Risk Assessor, Water Treatment Operations Supervisor Add name of client/open access programme e.g., 'Company'/Cohort no. and any logo they wish to use

Attended/ Virtual Classroom



Delivered by Cherith Simmons Learning & Development in collaboration with:





Tel: 01932 856 565 Fax: 01932 856 777 E-mail: <u>enguines@cherifhsimmons.co.uk</u> Website: <u>www.cherifhsimmons.co.uk</u>

Full EPA preparation is provided. Cherith Simmons are currently achieving 85% distinctions in EPA passes.

Who is delivering the programme?

The programme will be delivered and managed by Cherith Simmons LLP working closely with water treatment experts who helped create the apprenticeship standard.

Cherith Simmons Learning and Development is a leading edge ESFA approved Training Provider. We are a partnership with accreditation from all leading Leadership and Management accrediting bodies in the UK.

Here's what Ofsted said about us recently:

"Cherith Simmons Learning & Development have a clear vision to prepare future apprentices to succeed in highly challenging and changing business environments. They have developed a curriculum that often goes beyond the requirements of the apprenticeship and allows apprentices to develop a greater understanding of theories and practices. Consequently, apprentices, who are often already experienced employees, develop new and valuable knowledge and skills."

At our most recent Ofsted inspection we were rated <u>'Good'</u> against all 5 assessment criteria. Currently, <u>85%</u> of our apprentices achieve distinction at their End Point Assessment

Highly experienced tutors

Tuition will be by leading experts in the field of Water Treatment, who will also provide expert assessments.

Dedicated support team

All programmes have a dedicated graduate-level Client Services Manager who is the first point of contact for all participants and our clients. FAQs, forums, webinars and email contact are available 24/7.

Who are our clients?

Cherith Simmons designs and delivers a wide range of Leadership and management development programmes across the UK & internationally in all sectors, through face-to-face & virtual workshops, coaching, and mentoring learning for all programmes.





Education & Skills



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