



Course Title: Water Treatment – Plant Operators Assessment Course Including Practical Assessment (2073)	
Duration: 7 Days	Certification: QQI Certification
Expiry Period: N/A	Award: Plant Operations for Water Treatment QQI Level 5

Introduction:

LASNTG has developed this seven-day course for those who work in Water Treatment Area.

Aim of Programme:

To equip the learner with the knowledge, skill and competence to operate and maintain a water treatment plant in a safe and efficient manner, in compliance with current legislation whilst working under direction.

Target Learner:

This training programme is for learners who will have worked with or have experience in Water Treatment. Learners can be Plant Operative, General Operative, Technician, Engineer and Supervisor.

Learning Outcomes:

On completion of this programme, the learner will be able to:

- Understand the importance of bacteriological testing of water.
- Examine the recommended flow rates for air and water during a filter wash and the current statutory limits for fluoride in treated water.
- Explore the reasons for algal growth in water sources and why chlorine demand can increase in source water.
- Summarise the operational conditions necessary to achieve the optimum performance of pumps.
- Examine the current requirements for residual chlorine at the end of the network as per current Environmental Protection Agency (EPA) guidelines.
- Discuss the characteristics of chlorine when used for disinfection in potable water.
- Investigate the processes, plant and equipment used in water treatment plant to facilitate the removal of colour in water.
- Test a treated water sample to determine the level of residual chlorine present, to include testing the pH and fluoride levels of a water sample.
- Calculate the dose rate for fluoride based on the weight of hydrofluosilic acid used in a given period.
- Identify the ideal temperature for water when using SPADNS reagent to test for fluoride as per manufacturers recommendations.
- Identify the chemicals used in water treatment plants to raise the pH of water and the units used to measure ultra violet radiation levels when used in a water treatment plant.
- Implement the disinfection process and a filter wash in a water treatment plant.
- Maintain records to ensure compliance with the regulatory requirements for water treatment plants.
- Work independently to operate and maintain a water treatment plant.



Assessment:

There is **Theory** based examination (30%) which is a Classroom Exam and Standard Pass is 50%-64% and the duration is 1.50 hours.

Also **Skills** demonstration (70%) with is Site Practical Exam and has Standard Pass of 50%-64% and this duration is 3-6 hours.

Entry requirements:

- Applicants must be able to demonstrate a level of knowledge, skill and competence associated with Level 4 of the NFQ.
- It is desirable that they have worked in or are familiar with the operations of a water treatment plant.

Equipment/Documentation the learner must bring to course:

- Personal Protective Equipment (Safety Boots / High Vis) PPS Number / Identification – Safe Pass, Drivers License or Passport.

Enquiries and Booking:

Please contact your local Regional Training Centre:

- Ballincollig: brtc@corkcoco.ie
- Ballycoolin: ballycoolintraining@fingal.ie
- Castlebar: crtc@mayococo.ie
- Roscrea: roscreartc@tipperarycoco.ie
- Stranorlar: stranorlartc@donegalcoco.ie

See www.lasntg.ie for further details

