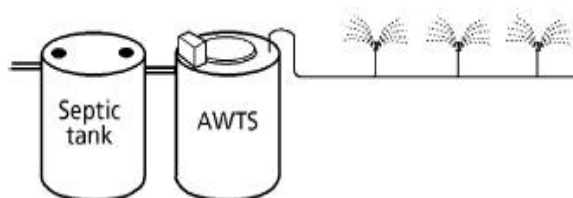


**Centre for Environmental Training**

# Aerated Wastewater Treatment System Servicing and Maintenance

**28-30 October 2026****Penrith, NSW**

Practical, competency based training in performance monitoring, problem identification, troubleshooting and rectification of aerated wastewater treatment systems

Delivered by the leading Australasian On-site Wastewater Management Training Organisation

This three-day course covers the fundamentals of aerated wastewater treatment systems (AWTS) and similar systems classified as secondary treatment systems (STS). It covers the principles of AWTS/STS operation, the variety of systems on the market (extended aeration, activated sludge, trickling filter, rotating biological contactor, sequencing batch reactor etc.), performance expectations and regulatory requirements. Participants acquire a thorough grounding in all aspects of domestic and small commercial AWTS/STS operation, servicing and maintenance. The course covers inspection and assessment, testing, interpretation, diagnostic fault finding, troubleshooting and rectification. The course also covers the servicing and maintenance requirements of associated land application systems.

From the perspective of the maintenance technician, the course covers the treatment process, basic diagnostic wastewater tests and their interpretation, routine maintenance, troubleshooting and repair of faulty or failing systems.

From the perspective of the Council Officer involved in regulatory approval and ongoing operational oversight, the course covers in detail the performance requirements for AWTS, inspection protocols, testing, interpretation of results, diagnosis of problems and their rectification, and reporting requirements.

The course introduces each topic with fully illustrated presentations and involves all participants in hands-on practical exercises to consolidate their knowledge and develop their skills. There is a strong emphasis on practical and field based learning with approximately 50% of the course time spent on troubleshooting exercises and inspection and troubleshooting a wide variety of AWTS/STS in the field. Course participants will be directly involved in inspection, testing, fault finding and rectification of operating systems.

The course assessment includes completion of a range of theoretical and practical troubleshooting exercises and participants are required to complete practical assignments on operating systems.

**Penrith RSL****8 Tindale Street, Penrith NSW 2750****28-30 October 2026**

This course has been developed in response to the concerns expressed by Local Government, State Government Agencies, the wastewater industry and homeowners over the variable availability and standards of servicing and maintenance of AWTS. It fulfils the NSW Health training requirements for Service Agents of AWTS/STS (prev. Advisory Note 5).

The course is particularly suited to systems manufacturers, installers, maintenance technicians and to Council Officers involved in approval, inspection and regulatory oversight of AWTS/STS. The course will also be of benefit to those involved in auditing and third party inspection of AWTS/STS.

Participants receive comprehensive course notes and on successful completion participants will receive a certificate formally documenting competencies.

**Technical sessions include:**

- The Fundamentals of Operation of AWTS/STS
- The Anatomy of AWTS/STS
- Treatment Processes
- The Variety of Systems
- Workplace Health and Safety
- Inspection and Assessment
- AWTS/STS Inspection Protocols
- Inspection Equipment
- Wastewater Sampling and Testing
- Performance Requirements for AWTS/STS
- Assessing AWTS/STS Performance
- Troubleshooting
- Maintenance of AWTS/STS Components
- Land Application Systems
- Maintenance of Land Application Systems
- Scenario Exercises – Diagnosis, Fault Finding and Troubleshooting
- Hands-on Practical Exercises on a Variety of Operating Systems

## AWTS Servicing and Maintenance Course

### Course Presenters

**Kerry-Martin Flanagan** has over 25 years of experience as a Licensed Plumber, has a restricted Electrical Licence and is certified for Backflow Prevention, Thermostatic Mixing Valves and Confined Spaces. He has extensive experience in inspection and maintenance of a wide range of AWTS/STS. Kerry is a site assessor and system designer, constructor and certifier of all forms of on-site wastewater management systems. Kerry has developed the innovative "Wick" trench system and is an installer/agent for Innoflow Australia, OzFlo, Clearwater, Graf and Fuji Clean Australia and has had extensive experience with Dowmus and Biolytix systems, sand filters and Wisconsin mounds.

**Joe Whitehead, BSc MAppSc PGCE FGS** is the Director of the Centre for Environmental Training and Principal of Whitehead & Associates Environmental Consultants Pty Ltd, a leading consultancy specialising in on-site and decentralised wastewater management throughout Australia, New Zealand and the Pacific Islands. Joe is an experienced designer of on-site wastewater management and reuse solutions on all scales from single domestic premises to community facilities and villages. He has extensive experience in the design, installation, fault finding, troubleshooting, operation and management of a wide range of AWTS/STS and package treatment systems.



### Course Enrolment Form (4153)

If you would like to enrol in this course, please complete your details below or on-line at

<https://www.environmentaltraining.com.au/course-schedule>

Participant Name

Organisation

Billing Address

Postcode

Purchase Order Number

(if required by your organisation for invoicing)

Tel

e-mail

**PLEASE REGISTER ME FOR:**

**Aerated Wastewater Treatment System Servicing  
and Maintenance Training Course  
28-30 October 2026**



The course will be held from 8.30am to 4.30pm at Penrith RSL, 8 Tindale Street, Penrith, NSW.

**Course fee: \$3,165.00 + \$316.50 GST = Total \$3,481.50**

**10% discount for two or more registrations from the same organisation.**

Course fee includes comprehensive course notes, lunches and morning and afternoon teas. Each participant will receive a certificate outlining the detailed content and duration of the course.

**Payment Terms and Conditions:** Payment can be made by EFT or credit card (a 2.6% PayPal surcharge applies). Places will be confirmed upon receipt of payment into our account. If you are unable to attend a course, you will need to advise us of cancellation at least 14 days prior to the course otherwise no refund will be provided. A full refund will be given where notice of cancellation is given more than 14 days before the course. 10% administration charge is applicable to all course transfers due to illness/non-attendance.

**The Centre for Environmental Training  
197 Main Road  
CARDIFF NSW 2285**

**E-mail:** [mail@environmentaltraining.com.au](mailto:mail@environmentaltraining.com.au)

**Web:** [www.environmentaltraining.com.au](http://www.environmentaltraining.com.au)

### AWTS Servicing and Maintenance

Competency based training covering all aspects of AWTS/STS testing, operation and maintenance. The course covers AS1546.3 2017 *On-site domestic wastewater treatment units Part 3; Secondary treatment systems*, NSW Health *Secondary Treatment System Accreditation Guideline 2018* and the previous NSW Health Advisory Note 5 2018 *Servicing of Single Domestic Secondary Treatment Sewage Management Facilities (SMF)*.

This course incorporates all of the elements and performance criteria, as they relate to AWTS/STS, in NWPGEN021 - Sample and Test Wastewater, NWPTRT027 - Monitor and Operate Wastewater Processes and CPCPDR3024 - Maintain and Service Domestic Treatment Plants and Onsite Sewerage Facilities, and covers a wide range of additional topics in greater depth. In addition, the course provides participants with hands-on practical training in inspection, assessment, testing, interpretation, diagnostic fault finding, troubleshooting and rectification of AWTS and STS which are critical to their effective and compliant operation.

**Participants will need to bring a calculator and suitable attire and protective clothing for the field based components of the course.**

#### **What previous course participants have to say:**

*"Great explanation and detail on AWTS. Great presentation by both presenters and easy to understand. The course has been very helpful and has given me a better look into sewer treatment."*

Luke Seaman – LZ Plumbing, Orange NSW

*"The content is very comprehensive and holistic. It covers every aspect very well. It is well presented and the presenters are good at their work. The course is of great help. Learned a lot."*

Pranit Kapoor – Wagga Wagga City Council

*"Very in-depth, which is what I believe is needed when undertaking this kind of work. Very well presented and presenters are very knowledgeable. As a city plumber I haven't had much exposure to AWTS, but now have the confidence to employ the teaching."*

Troy Sanders, Murrumbateman NSW



**Onsite i Site**

All course participants receive a complimentary one-year subscription to our on-site wastewater information portal.

[www.onsiteisite.com](http://www.onsiteisite.com)