

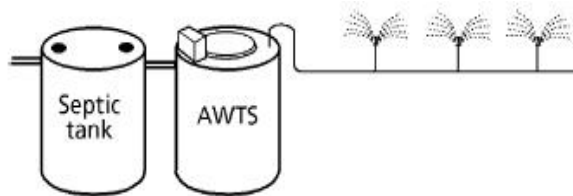


Centre for Environmental Training

# Aerated Wastewater Treatment System Servicing and Maintenance

**10 – 12 March 2020**

**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). It covers the principles of AWTS 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 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 land application systems associated with AWTS.

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 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**

**10-12 March 2020**

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 training requirements of NSW Health for Service Agents.

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

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
- The Anatomy of AWTS
- Treatment Processes
- The Variety of Systems
- Workplace Health and Safety
- Inspection and Assessment
- AWTS Inspection Protocols
- Inspection Equipment
- Wastewater Sampling and Testing
- Performance Requirements for AWTS
- Assessing AWTS Performance
- Troubleshooting
- Maintenance of AWTS 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 Enrolment Form (2479)

### 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. 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 Klaro and Fuji Clean Australia and has had extensive experience with Dowmus and Biolytix systems, sand filters and Wisconsin mounds.

**Joe Whitehead, BSc MAppSc FGS MEIA** 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 and package treatment systems.



### AWTS Servicing and Maintenance

Competency based training covering all aspects of Aerated Wastewater Treatment Systems 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 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, in:  
NWPGEN008 - Sample and Test Wastewater, and  
NWPTRT061 - Operate and Control Wastewater Processes, 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 Aerated Wastewater Treatment Systems 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:**

*"Excellent, very thorough on treatment plant servicing, operation and land application. Great presentation. Hands-on with lots of examples, case studies and on-site learning"*  
Peter O'Brien, Mornington Peninsula Shire, VIC.

*"Very good. I must have asked 1,000 questions and both presenters were very helpful."*  
Ross Tindale, Service Technician, Hall, ACT.

*"Very helpful as a trainee Health & Building Surveyor in a rural Council. I will be dealing with lots of AWTS."*  
Mark Robertson, Wellington Council, NSW.

*"The site visits were very helpful. The problem-solving workshops were very good."*  
Andy Edwards, Lismore City Council, NSW.

*"The course took beginners in the field up to a standard where you're confident to assess and pinpoint issues in a wide variety of systems. No questions went unanswered."*  
Andrew Arnott, Wallsend, NSW.

If you would like to enrol in this course please complete your details below or on-line at  
<http://www.environmentaltraining.com.au/Australian-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  
10-12 March 2020**



The course will be held from 8.30am to 4.30pm at Penrith RSL, 8 Tindale Street, Penrith, NSW 2750.

**Course fee: \$2,195.00 + \$219.50 GST = Total \$2,414.50**

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

Course fee includes comprehensive course notes, lunch and morning and afternoon tea. Please tell us if you have special dietary requirements.

**Payment Terms and Conditions:** Once enrolment form is received we will send you a tax invoice outlining payment details. Payment can be made by Electronic Funds Transfer or via cheque payable to The Centre for Environmental Training. Places will be confirmed upon receipt of payment into our account.

Reservation deadline is one week prior to any workshop.  
**Cancellations must be notified five working days** prior to course start dates or full fees will be payable.

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AUSTRALIA**

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



**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)