



Centre for Environmental Training

On-site Wastewater Management Training Course

28 - 30 September 2020

Penrith, NSW



Key training for Site and Soil Assessors and Regulators to consolidate your skills in the design, technology and management of on-site and decentralised wastewater systems

The leading Australasian On-site Wastewater Management Training Course covering AS/NZS1547:2012 and NSW Government Guidelines

This very popular course is revised and updated for each presentation to illustrate best practice in on-site wastewater management. The course formally reviews competencies with an integrated series of practical and workshop exercises completed throughout the course. The course covers all aspects of the Standard *AS/NZS 1547:2012 On-site Domestic Wastewater Management* and the NSW Government Environment & Health Protection Guidelines *On-site Sewage Management for Single Households*.

The course is designed for those involved in planning, design, regulation, management, installation and performance supervision of on-site and decentralised wastewater management systems. It is particularly relevant to Environmental Health Officers, Building Inspectors, Plumbing Inspectors, Environmental Managers, Planners, Surveyors, Catchment Managers, Site and Soil Assessors, Environmental and Engineering Consultants as well as on-site systems designers, manufacturers and installation and maintenance technicians.

Councils should encourage attendance by site and soil assessors preparing Wastewater Reports to support development applications.

The three-day course comprises lecture presentations, practical demonstrations, hands-on practical and workshop sessions and a field based site assessment and design exercise. There is ample opportunity for discussion, information exchange and networking with fellow on-site wastewater practitioners.

The course has been developed in conjunction with regulatory agencies and relevant professional bodies throughout Australia and New Zealand, and is widely recognised for Continuing Professional Development.

Participants receive comprehensive course notes and on completion, a certificate formally documenting the course content and competencies addressed.

Participants are asked to bring a calculator and, if possible, a shovel or an auger as well as suitable attire for the field based site assessment.

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Technical sessions include:

- The Regulatory Environment
- Wastewater Quantification and Characterisation
- Primary Treatment; Septic Systems
- Composting Systems and Greywater Diversion
- Secondary Treatment; Sand Filters and Mounds
- Secondary Treatment; Wetlands and Reed Beds
- Aerated Wastewater Treatment Systems
- Tertiary Treatment; Disinfection and Advanced Processes
- Soil Absorption Systems; Trenches and Beds
- Soils; Hydraulic Conductivity and Dispersion
- Soil Properties, Classification and Testing
- Passive Dosing; Siphons and Flouts
- Evapotranspiration Systems
- LPED Systems and Wick Trenches
- Water Balance Analysis
- Nutrient Removal and Land Application Systems
- Irrigation Systems
- Land Capability Assessment
- Soil Landscape Interpretation
- Site and Soil Assessment
- Field Based Site and Soil Assessment
- Site Evaluation and Design Exercise
- Failing Systems; Auditing and Troubleshooting
- Tracing Failing Systems
- Regional On-site Wastewater Issues

On-site Wastewater Management Training Course

Course Presenters

Phillip Geary, BSc, MSc, PhD, MAWA, Conjoint Associate Professor in Environmental Science, School of Environmental and Life Sciences, The University of Newcastle. Phillip has served on the AS/NZS 1547 Standard Committee and was the inaugural Chair of NOSSIG, the National On-site Systems Interest Group in Australia. Phillip has researched and designed many alternative systems and solutions to on-site wastewater management problems in Australia, New Zealand and the USA and has had numerous papers on his research published. His recent research programs have investigated the impact of on-site wastewater systems on sensitive shellfisheries and the use of tracers to define the impacts of failing systems.

Mark Saunders, BEnvSc. (Hons I), is a Senior Consultant at Whitehead & Associates Environmental Consultants Pty Ltd. Mark has wide-ranging experience in on-site wastewater management, including site assessment, system selection and design, project management, risk analysis and auditing. Mark has worked extensively in the public and private sector in both Australia and the USA. Mark has developed audit protocols and tailored operation and management (O&M) plans for a wide variety of package treatment technologies and works closely with both regulators and plant operators to troubleshoot package treatment plant problems to meet operational and regulatory requirements.

Joe Whitehead, BSc, MAppSc, PGCE, FGS, is Director of the Centre for Environmental Training, Australia and Principal of Whitehead & Associates Environmental Consultants Pty Ltd, a consultancy specialising in on-site wastewater management. Joe is an Environmental and Engineering Geologist with wide experience in site evaluation and wastewater management in Europe, America and Australasia. Joe has extensive expertise in design and management of both domestic and commercial scale on-site systems for difficult and constrained sites including those in landslip prone and sensitive coastal locations. Joe has contributed to the writing of a number of regulatory guidelines on on-site wastewater.

Course Enrolment Form (2632)

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:

On-site Wastewater Management Training Course 28-30 September 2020

The course will be held from 8.30am to 4.30pm. Venue to be advised.

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.

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.

The Centre for Environmental Training
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On-site Wastewater Management

Competency based training covering all aspects of on-site wastewater management.

Covers the Standard AS/NZS 1547:2012 *On-site Domestic Wastewater Management* and the NSW Government Environment & Health Protection Guidelines *On-site Sewage Management for Single Households*.

Provides up-to-date coverage of advances in the science, technology and management of on-site systems and a wide range of options and alternatives for problem sites.

Is prepared and presented by the leading team of on-site wastewater trainers in Australasia.

In excess of 4,000 wastewater professionals from Australia, New Zealand and the Pacific have already completed the course.

Participants receive comprehensive course notes and a certificate formally documenting competencies.

What previous participants have to say:

"I thoroughly recommend the course for both regulators and consultants. The course notes are a great reference."
Helen Tunks, hmc Environmental, Bonora Point, NSW.

"Very thorough and comprehensive, all the presenters were very professional. Course notes were very comprehensive."
Owen Ashby, EHA, WA.

"Informative, educational and helpful. The course is well thought out. Great to hear from industry representatives with many years of experience."
Joel Barbara, Port Macquarie Hastings Council, NSW.

"Very good, invaluable to my work."
Brent Fletcher, Environment Waikato, New Zealand.

"Good, covered all areas that I think were necessary for a consultant."
Geoff McVey, Morse McVey, Nowra, NSW.

"One of the best technical courses I have been on in a long time. Really excellent content and practical experiments."
Andrew Stevens, Queensland.



Onsite i Site

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

www.onsiteisite.com