

More rigorous requirements for Land Capability Assessment and Site and Soil Assessment have been incorporated into recent revisions of various State Government On-site Wastewater Guidelines and Codes of Practice. Many of these documents require a more structured approach to site and soil or land capability assessment and onsite wastewater system design.

The on-line course covers all aspects of on-site treatment systems and land application methods and land capability (site and soil) assessment for design and management of on-site and decentralised wastewater management systems to comply with current legislation.

The course follows the approach of the Australian Standard AS/NZS1547:2012 On-site Domestic Wastewater Management, and the methodologies presented in current State Government Guidelines and Codes of Practice.

The course is designed for those involved in land capability assessment, site and soil assessment, planning, design, installation, regulation, management and performance supervision of domestic on-site and decentralised wastewater management systems. It is particularly relevant to Land Capability Assessors, Site and Soil Assessors, Environmental Health Officers, Building Inspectors, Plumbing Inspectors, Environmental Managers, Planners, Surveyors, Catchment Managers, Geotechnical, 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 Land Capability Assessment (LCA), Site and Soil Assessment or Wastewater reports to support development applications. It is equally important that Council officers assessing these reports are appropriately skilled.

The course comprises lecture presentations over two days on treatment systems and land application systems, worked examples of system sizing and an introduction to soils and desktop land capability assessment.

A further practical day including hands-on practical workshop sessions on soils and site assessment and a guided field based design exercise will follow separately.

The first two days of the course will be held **On-line** on Zoom on

30 November & 1 December 2021

The final day of soils and field based practical work will be held once COVID-19 restrictions ease, on dates to be confirmed, at interstate venues depending on demand.

30 November 2021 On-line

On-site Wastewater Treatment and Soils

- Wastewater Characterisation and Testing
- Primary Treatment
- Septic Systems
- Composting Systems and Greywater Diversion
- Secondary Treatment
- Sand Filters, Media Filters and Mound Systems
- Treatment Wetlands and Reed Beds
- Aerated Wastewater Treatment Systems
- Soil Assessment for On-site Wastewater Management

1 December 2021 On-line

Land Capability Assessment and Land Application Systems

- Land Capability Assessment; Desktop Study
- Soil Absorption Systems; Trenches and Beds
- Passive Dosing Systems; Siphons and Flouts LPED Systems
- Evapotranspiration Systems; Sizing by Water Balance
- Nutrient Removal and Land Application Systems
- Irrigation Systems: Componentry and Design
- Failing Systems; Auditing and Troubleshooting

Practical Day (date to be confirmed)

- Soils Practical
- Practical Land Capability Assessment
- Design Exercise



Centre for Environmental Training



On-site Wastewater Management
On-line

30 November & 1 December 2021

with Practical Days in various locations when COVID-19 restrictions permit (dates tbc)



Competency based training in site and soil assessment for design and management of domestic on-site wastewater systems

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

Site & Soil Assessment On-line Course Enrolment Form (3071)

Course Presenters

Phillip Geary, BSc, MSc, PhD, Honorary 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 research papers published. His recent research has 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 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 has extensive experience in troubleshooting domestic and commercial on-site wastewater treatment systems to meet operational and regulatory requirements.

Joe Whitehead, BSc, MAppSc, FGS, MEIA, 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 and varied experience in geotechnical aspects of site evaluation, waste and wastewater management, in Europe, America and Australasia. Joe has extensive expertise in land capability assessment, design and management of domestic and commercial scale on-site and decentralised systems for difficult and constrained sites. Joe has written Domestic Wastewater Management Plans for several State Government Regulatory Agencies and has coordinated the original MAV *Model Land Capability Assessment* document and the more recently published *Victorian Land Capability Assessment Framework*.

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 purposes) | _____ |
| Tel | _____ |
| e-mail | _____ |

PLEASE REGISTER ME FOR:

On-site Wastewater Management course

On-line 30 Nov & 1 Dec and Practical Day (tbc)

Full course fee: \$2,250 + GST

On-line 30 Nov & 1 Dec 2021 fee: \$1,650 + GST

Practical Day (date tbc) fee: \$825 + GST

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| <input type="checkbox"/> |
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Practical Day will be held from 8.30 am to 4.30 pm at various interstate locations (tbc).

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

Course fee includes comprehensive course notes and catering on the practical day. Each participant will receive a certificate outlining the detailed content and duration of the course. Please bring required materials as noted in the brochure.

Payment Terms and Conditions: Payment can be made by EFT or credit card (a 2.6% 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

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On-site Wastewater Management

Covers all aspects of on-site wastewater management.

Covers AS/NZS1547:2012 *On-site Domestic Wastewater Management* and the State Government Guidelines and Codes of Practice.

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:

"The course content was very informative. I obtained most from the calculations relating to DLR, water balances and how an LCA is completed. Zoom delivery of the course was good and allowed the option to ask questions.

Lauren Baldassa, Valley Septic, Trafalgar, Victoria.

"I thoroughly recommend the course for both regulators and consultants. The course notes are a great reference."

Helen Tunks, hmc Environmental, Bonora Point, NSW.

"Should be a mandatory training requirement for any designer, assessor or regulator involved in onsite wastewater."

Peter Rogers, NT Government.

"Comprehensive, challenging; much more useful than I had ever imagined possible. Clear, enthusiastic, professional, knowledgeable, patient and humorous presenters."

Fiona Pfeil, Gippsland Water, Victoria.



Onsite i Site

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

www.onsitesite.com