

WSUD Training Course: For DA & CC Assessors



UTS: ENGINEERING

Background

This course is designed for Council Development Application (DA) Assessors and Certified Checkers (CC). It will be a one day course aimed at giving assessors the expertise required for dealing with WSUD development proposals.

The course will be structured around a best planning practice model with examples provided of specific Council planning requirements. Training includes lecture presentations, tutorials, group work with hands-on examples, course notes.

This course is supported by the **Hunter Central Coast Regional Environmental Management Strategy (HCCREMS)** as part of its Urban Integrated Water Cycle Management Program.

Website:- www.urbanwater.info



OBJECTIVE

The workshop is intended to provide knowledge about how WSUD works, the required design elements and their configuration for proper performance. The role of modelling in WSUD will be explained by experts who will provide critical information on how to undertake checks. It includes hands-on assessment of example projects.

The workshop is suitable for council staff involved with DA assessment and Certified Checkers. The course would also be of interest to consultants wishing to gain a better understanding of council requirements. For further information please contact **Dr. Jaya Kandasamy** on (02) 9514 2558, or 0403 925 593.

DATE

9 am to 5 pm, **Friday 20 April, 2007**

VENUE

Workshop will be held at Room CC1 at IDC (Industry Development Centre), Callaghan Campus of the University of Newcastle (see attached map)

PRESENTERS

Simon Beecham is Professor of Sustainable Water Resources Engineering, University of South Australia

David Pezzaniti is a Senior Research Engineer at the Urban Water Resources Group

Jaya Kandasamy, Faculty of Engineering, UTS

WORKSHOP FEES

The course fee is **\$550**. **Note: GST is not applicable to UTS courses.** Fees cover tuition, notes and CD, as well as tea and lunch.

REGISTRATION

Please complete this form and fax or email it to: **(02) 9514 2633** or jaya.kandasamy@uts.edu.au.

A tax invoice will be posted to you.

Attendees' Name(s):.....

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Organisation:

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ABN:.....

Address:

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Phone:Fax:

E-mail:

Course Program

1. Systems Approach to WSUD

- WSUD should not be seen as a single element. Cover benefits from integrated systems giving examples.
- Rainwater tank overflowing into an infiltration trench is not a total WSUD system.
- Importance of total water cycle management will be illustrated through brief examples
- Need to combine stormwater controls with in-house structural (i.e. water efficient devices) and non-structural (i.e. demand management) measures

2. Design Checking & Maintenance of Storage Elements (including sizing)

- Rainwater tanks, stormwater storage tanks, OSD and how this can be incorporated into WSUD strategies
- Paradox of combining flood control and water reuse storages to be discussed and illustrated through case studies

3. Design Checking & Maintenance of Treatment Elements (including sizing) for Specific Land-use

- Residential (single lot, medium density and multi-unit)
- Commercial & Industrial
- Roads & Car Parks
- Schools & Public Buildings

4. Siting & Buffer Distances and Legislative Requirements

- RDA & DNR requirements/allowances for creeks & waterways
- Sensitive soils, Ground water issues, Confined WSUD designs
- Property boundary, foundation and swimming pool buffer distances

5. WSUD Design Problems

- Review and discussion of observed WSUD “design” and future maintenance problems

6. WSUD DA Assessment (Small Groups Exercise)

- Assessment of an actual case study site that covers many WSUD elements (using existing WSUD planning requirements/manuals). To be done in small groups of 3-4.

7. Interpretation of Modelling Results used for WSUD

- Modelling Approach and Integration with Stormwater including discussion on MUSIC modelling.

Timetable for the Day

Time	Topics	Presenter
9.00 - 10.40am	WSUD Systems Design Checking Storage Elements	Prof Simon Beecham David Pezzaniti
10.40 – 11am	Morning Break	
11am – 12.30pm	Design Checking Treatment Elements	Prof Simon Beecham, David Pezzaniti
12.30 – 1.30 pm	Lunch	
1.30 – 2.30pm	Design Checking Treatment Elements (cont'd)	Prof Simon Beecham, David Pezzaniti
2.30 – 3.30pm	DA Assessment Case Study (Small Group Activity)	Prof Simon Beecham and Jaya Kandasamy
3.30 -3.45 pm	Afternoon Break	
3.45 – 4.30 pm	DA Assessment Case Study (Small Group Activity)	Prof Simon Beecham and Jaya Kandasamy
4.30 – 5.00 pm	Modelling Approach and Integration with Stormwater Concluding Remarks	Prof Simon Beecham



VENUE LOCATION

Directions to the IDC

