

## Streetscale raingardens – design and practice

### Overview

This course offers practitioners knowledge and skills to plan and design streetscale raingardens to ensure long-term success, including selection and placement of vegetation. It includes an afternoon session with three of Adelaide's leading WSUD practitioners who will share their learnings from Raingarden 500 pilot projects.

### Learning objective

The training will assist participants to improve knowledge and skills with respect to appropriate design parameters and practices necessary to enable the delivery of successful biofiltration assets.

### Audience

Engineers, landscape architects and designers and urban designers

### Modules

#### **01 – Why choose a streetscape raingarden**

- How they work
- Measuring performance

#### **02 – How they work**

- Treatment processes
- Different configurations in street

#### **Measuring performance**

- Modelling assessment
- Typical configuration, sizing guide

#### **03 – Detailed design**

- Inlets, outlets, plumbing
- Soils
- Harvesting
- Construction and maintenance

#### **04 – Vegetation selection for biodiversity, amenity and low maintenance**

- National and State guidelines for raingarden plant species selection and placement
- Indigenous species that add seasonal colour and interest to raingardens, including mat forming, herbs, sedges, shrubs and trees)

#### **05 – Selecting a site**

- Design considerations

- Common constrains (Slopes, trip hazards, services)

#### **06 – Design workshop**

- Worked example case study. Design of bio-retention system
- Participants are encouraged to bring along their own case study to consider in small group workshop sessions

#### **07 – Community of practice**

- Site visit raingarden/biofilter in local area
- Guest presenters: Local government for example: Russell and Gilberts Street raingardens, Randolph Avenue streetscape upgrade, and Brooker Terrace raingardens (may vary depending on availability)

### Presenters/trainers

Robin Allison, Director, Designflow

Ralph Williams, Senior Engineer, Designflow

Shaun Kennedy, Specialist, Vegetation Services, SA Water

Guest presenters: Local Government/Raingarden 500 project managers (variable subject to availability)

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### Contact us

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### Core competencies attained

- An understanding of bio-retention system function and components.
- An understanding of vegetation for nutrient removal and aesthetics suited to SA conditions.
- An understanding of growing medium specifications.
- An understanding of inlet and outlet structures design to facilitate high function.
- An ability to design a simple bio-retention system.

### Cost

Price on application