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## Erosion and Sediment Control

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### **Erosion and Sediment Control**

Four one day professional development workshops for practitioners in Erosion and Sediment Control, based on the DERM Urban Stormwater Quality Planning Guidelines, IECA Best Practice in Erosion and Sediment Control Manual and the Sunshine Coast Regional Council Erosion and Sediment Control Manual. Together the workshops cover the theory required for the International Erosion Control Association (IECA) examination for Certified Professional in Erosion and Sediment Control (CPESC). Examination candidates need to know both the theory and its application in a practical context. The IECA has endorsed these workshops.

### **Workshop 1: Fundamentals of Erosion and Sediment Control**

Workshop 1 focuses on the fundamentals of erosion and sediment control. Topics include the theory of soils and soil conservation, how, when and why to use various erosion and sediment control products or practices, plus real-world examples of reading and understanding erosion and sediment control plans. It provides training in the selection, construction and maintenance of temporary and permanent erosion and sediment control measures on construction sites.

#### **Workshop content:**

- Theory of Erosion and Sediment Control
- Soils and Soil Conservation
- Implementing, Selecting, Maintaining and Inspecting Erosion and Sediment Control Best Management Practices
- Erosion and Sediment Control Products and Techniques

### **Workshop 2: How to Use the Guidelines**

Workshop 2 gives a broad overview of the material contained in the various best practice guidelines. This workshop provides an understanding of the key technical and management issues relating to erosion and sediment control in the urban environment in Queensland. Workshop participants require a calculator.

#### **Workshop content:**

- Site Assessment and Site Planning
- Erosion Hazard Assessment and Use of the RUSLE Equation
- Site Management and Inspection
- Practice Examples – Small Sites, Culverts, Linear Projects

### **Workshop 3: Water Management on Construction Sites**

Workshop 3 trains those responsible for the selection, design or review of temporary and permanent erosion and sediment control measures on urban construction sites. This workshop focuses on sediment basins and water diversion structures, two key features of any Erosion and Sediment Control Plan. Participants should ideally bring a laptop to this workshop to complete the various exercises (one between two or three participants is acceptable).

#### **Workshop content:**

- Theory of Water Management
- Application of Water Management on Construction Sites
- Sizing and Designing Sediment Basins
- Designing Catch Drains and Diversion Structures

### **Workshop 4: Preparing and Reviewing Erosion and Sediment Control Plans**

Workshop 4 covers the identification and design of temporary and permanent erosion and sediment control measures on construction sites and their delineation on a plan. This workshop pulls together the information presented at the earlier Workshops 1, 2, and 3. It involves extensive group work and practical exercises to prepare and review ESCPs on major projects. Participants should ideally bring a laptop to this workshop to complete the various exercises (one between two or three participants is acceptable).

#### **Workshop content:**

- Theory of Plan Preparation
- Guided Practice and Groupwork in the Preparation of Larger-Scale Erosion and Sediment Control Plans
- Practice Examples – Subdivisions/Reconfigurations, Road and Rail Projects, Commercial/Industrial and Mining.

### **Who should attend these workshops?**

- Site construction personnel
- Developers and Consultants
- Civil and Environmental Engineers
- Local and State Government Officers
- Those responsible for reviewing Erosion and Sediment Control and Soil and Water Management Plans
- Others wishing to update their knowledge in line with the current best practice approaches in the guidelines
- Those wishing to sit the CPESC examination

### **Access to the Guidelines**

Many course participants or their organisations will already have copies of one or more of the guideline documents referred to above.

It will be helpful if course participants can bring with them either hard copy or electronic copy (pre-loaded onto a laptop) to access during the course.

DERM Urban Stormwater Quality Planning Guidelines can be downloaded free of charge at:

[http://www.derm.qld.gov.au/environmental\\_management/water/environmental\\_values\\_environmental\\_protection\\_water\\_policy/pdf/urban-water-web.pdf](http://www.derm.qld.gov.au/environmental_management/water/environmental_values_environmental_protection_water_policy/pdf/urban-water-web.pdf)

The Sunshine Coast Regional Council Erosion and Sediment Control Manual can be downloaded free of charge at:

<http://www.sunshinecoast.qld.gov.au/sitePage.cfm?code=erosion-sediment-manual>

IECA Best Practice in Erosion and Sediment Control Manual can be purchased from the IECA. An order form can be downloaded at:

<http://www.austieca.com.au/Portals/0/IECA%20BP-ESC%20sales%20brochure-v5.pdf>

### **Certified Professional in Erosion and Sediment Control (CPESC)**

This course is designed to prepare candidates for the International Erosion Control Association Certified Professional in Erosion and Sediment Control examination. Further information on the CPESC qualification can be obtained from the IECA website:

<http://www.austieca.com.au/CPESC/tabid/62/Default.aspx>

Further information on opportunities for completion of the IECA CPESC exam can be obtained from IECA Australasia, email: [admin@austieca.com.au](mailto:admin@austieca.com.au).

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## Erosion and Sediment Control

### Expression of Interest

Please place my name on the mailing list for information on future courses:

Name

Organisation

Address

Postcode

Tel

Fax

e-mail

Courses generally run from 9.00am to 5.00pm

Course fee includes comprehensive course notes, software as indicated, lunches and morning and afternoon teas.

Participants should bring required materials as noted.

Limited places are available. Reservation deadline is one week prior to any workshop.

Places are reserved on receipt of payment.

Please call or check our website for details of upcoming dates and venues.

### The Centre for Environmental Training

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### Erosion and Sediment Control Workshops

Workshop 1: Fundamentals of Erosion and Sediment Control

Workshop 2: How to Use the Guidelines

Workshop 3: Water Management on Construction Sites

Workshop 4: Preparing and Reviewing ESCPs

These workshops are based on the DERM Urban Stormwater Quality Planning Guidelines, IECA Best Practice in Erosion and Sediment Control Manual and the Sunshine Coast Regional Council Erosion and Sediment Control Manual.

Together, the workshops cover the theory required for the International Erosion Control Association (IECA) examination for **Certified Professional in Erosion and Sediment Control (CPESC)**. Examination candidates need to know both the theory and its application in a practical context. Arrangements for sitting the CPESC examination can be made with IECA (Australasia).

The IECA has endorsed these workshops.

These workshops are also available for in-house delivery. Please call the Centre for Environmental Training on 02 4954 4997 to discuss your requirements.

### Further E&SC Courses

For those working in specific industry sectors we offer additional one-day Erosion and Sediment Control Courses in:

- Services and Linear Easements
- Waste Landfills
- Unsealed Roads
- Main Road Construction
- Mines and Quarries

Please call the Centre for Environmental Training on 02 4954 4997 for further information.



Centre for Environmental Training

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Leading to  
**Certified Professional in Erosion and Sediment Control (CPESC)**  
qualification

Courses offered throughout Queensland

