

EROSION AND SEDIMENT CONTROL ADVANCED TRAINING COURSE

20th, 21st, 22nd, 25th and 26th November 2013
Victoria Park, Herston Qld

Industry leaders in soil, vegetation, and water management in Queensland have developed this 5-day course over recent years, and it continues to evolve with each successive presentation. It aims to initiate competency-based training for people responsible for construction erosion and sediment control works, including:

- Consulting engineers
- Environmental practitioners
- Construction supervisors and foremen.

It provides a practical introduction to the key principles of erosion and sediment control (ESC) and the necessary training to design, implement, and assess soil erosion and sediment control plans.

The course provides the information necessary to identify the issues relating to a particular site during the planning phase, and then the options to implement effective controls through to the rehabilitated stage of a project.

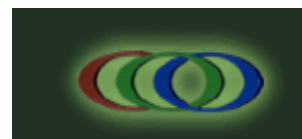
- Understanding of local and state laws regarding Erosion and Sediment Control
- Understanding of soil properties, soil testing, and soil amendments
- Knowledge of revegetation techniques, management, and maintenance
- Ability to assess site constraints and erosion hazard risk
- Ability to prepare ESC plans and supporting documentation/reports
- Ability to supervise the construction of a wide range of ESC techniques
- Ability to carry out site inspections and compliance reporting

The course will be delivered in 1 x 3-day and 1 x 2 day session, on the following dates:

Days 1, 2, 3: Wednesday 20th, Thursday 21st and Friday 22nd November 2013

Days 4 & 5: Monday 25th and Tuesday 26th November 2013

Individual days can be attended subject to availability. Please contact us for bookings.



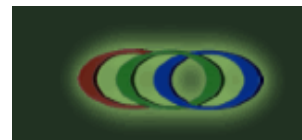
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PROGRAMME

Day	Topic	Presenter	Learning Outcomes
1	Soils	Ross Coventry	Aims of the course Introduction to soil erosion Physical and chemical properties of soil Dealing with soil problems
2	Revegetation	Des Bolton	Conservation values Remnant vegetation and tree clearing Conservation values Desirable attributes of plants Plant selection for landscaping Revegetation techniques Sustaining plant cover
3	Erosion and Sediment Control Practice	Bill Gardyne	Types of erosion and causal effects Effects of erosion and sedimentation Purpose and function of sediment control measures Typical erosion and sediment control measures Tools, plant and equipment required Soil Binders
	Flocculants	Kevin Smith	Water Quality Management in Sediment Retention Basins
4	Introduction to Construction Site Hydrology and Hydraulics	Grant Witheridge	Runoff coefficients for construction sites Time of concentration IFD tables Example calculations Introduction to Manning's equation Manning's roughness Procedure for the development of ESC Plans Review of case studies Group activities on ESCP development
	Development of ESC Plans		
5	Sizing Drainage and Sediment Control Measures	Grant Witheridge	Design and operation of sediment control measures including sediment basins, in-stream works, procedures and technique selections for in-stream work activities.
	Exam		



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PRESENTERS

Ross Coventry

Ross, until his recent retirement, was Associate Professor, Tropical Plant Sciences, at James Cook University. He has 30 years experience in the field of soil science, and has presented this component of the 5-day course over the past eight years.

Bill Gardyne

Bill is Vice-President of the Australasian Chapter of the International Erosion Control Association and a Level IV Trainer. He has 30 years soils experience from agricultural, geotechnical, and environmental perspectives, and has extensive experience on large-scale bulk earthworks and civil projects. He brings a highly pragmatic approach to the subject. He regularly provides advice as an expert witness in the Planning and Environment Court.

Des Bolton

Des is the Director of Revegetation Contractors, a Queensland-based company that specialises in revegetation and sediment control. He is a Certified Professional in Erosion and Sediment Control. Des will explain the practicalities and costs associated with various rehabilitation options including the requirements for stream diversions. He will also explain how to audit such practices.

Grant Witheridge

Grant's knowledge of stormwater management is complemented by 25 years' experience in the design of urban hydraulic structures, specialising in creek engineering, erosion control, energy dissipation and hydraulic modeling. He is an experienced trainer having presented on a range of related subjects over the past fifteen years.

Grant was principal author of IECA (2008) "Best Practice Erosion and Sediment Control" and Brisbane City Council's "Natural Channel Design Guidelines", "Creek Erosion Guidelines", "Sediment Basin Design Guidelines" and "Instream Sediment Control Guidelines". Grant's latest publication is "Fish Passage Requirements for Waterway Crossings – Engineering Guidelines".

CONTENT AND STANDARDS

The course content covers that all of the subject material required for the Certified Professional in Erosion and Sediment Control (CPESC) qualification. Please note that attendance in itself does not provide certification. Further information on the certification programme and pre-requisites can be found on the Aust IECA website at <http://www.austieca.com.au/CPESC.aspx>.

Further information on opportunities for completion of the IECA CPESC exam can be obtained from IECA Australasia,
e-mail: admin@austieca.com.au

An (optional) exam will be offered on the last afternoon of the course.

Registrations for Oxbow Consulting are managed by:

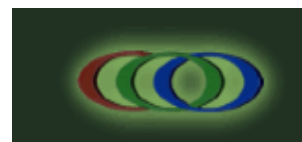
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Registration Form

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REGISTRATION DETAILS:

Don't miss out – register today to secure your spot for April, places are limited!

DATE: 20th, 21st, 22nd, 25th and 26th November 2013

VENUE: Victoria Park | Herston Road, Herston Q 4006

TIME: 8:15am for 8:30am start and concluding at 5:00pm

Please e-mail your completed registration form no later than **Monday 11th November 2013** to:
stephanie@associationsolutions.com.au or fax 07 5429 8486.

For further information, please don't hesitate to contact Association Solutions on 07 5429 8480.

A tax invoice will be supplied upon receipt of your registration. **Please note payment is required in advance.**

Organisation	
Address	
Contact Person	
Contact Number	
E-mail Address	

PARTICIPANTS DETAILS:

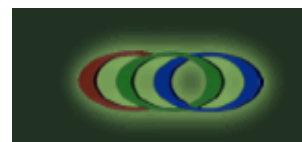
No.	Full Name	Position	E-mail Address	Cost
1.				\$2 420.00
2.				\$2 200.00
3.				\$1 980.00
4.				\$1 980.00

Please note:

- Course notes, lunch, and refreshments will be provided to all participants
- The timing and location of the training courses may be subject to cancellation or program alteration, depending on registration demand.

Cancellation Policy

Full refunds will be given for any cancellations made one week prior to the course. Cancellations made less than one week but more than 24 hours prior to the course will attract a 50% penalty. Cancellations made less than 24 hours prior to course will attract the full 100% attendance fee. Delegates unable to attend are welcome to send an alternative delegate.



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