



# ESC 2 Intermediate Training

SITE SUPERVISORS, ENGINEERS, PROJECT MANAGERS AND ADVISORS



## Course overview

The ESC 2 course is delivered over 1 day (8 PDUs) and is specifically focussed at Site Supervisors, Foreman, Environmental Advisors, Engineers and Project Managers tasked with delivering or overseeing projects. The course will provide attendees with the skills and knowledge to assess, identify and comply with requirements related to managing Erosion and Sediment Control (ESC) on their worksite. Attendees will gain a solid knowledge base in what the current best practice requirements are, along with practical measures and guidance in how to comply and reduce risk to both the environment and project.

The content of the ESC 2 course is based on the IECA (2008) “Best Practice Erosion and Sediment Control” document.

Courses are delivered by Terry Clark (Director of Topo), who has trained over 2,000 construction and public works personnel within QLD, NSW, VIC, NT and TAS. Terry holds the internationally recognised accreditation ‘Certified Professional in Erosion and Sediment Control’ (CPESC) and has many years of experience in planning, implementing and managing ESC aspects on a wide variety of projects including linear infrastructure (roads, pipelines, rail, transmission lines), major developments (residential, commercial and industrial), landfills and quarries. Terry has previously worked for Contractors (Tier 1 and 2) and Local Government and understands the challenges, financial constraints and working environment of those involved in public works and uses these experiences to provide a practical, insightful and engaging course for attendees.

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# Learning outcomes

- + Awareness of the impacts of poor onsite ESC management on the receiving environment
- + Review of relevant legislation and requirements
- + Overview of problem soils and management
- + Awareness of what is considered best practice for managing ESC and the associated limitations
- + Appreciation of why some erosion and sediment control techniques are more effective than others
- + An understanding of basic construction and maintenance requirements for drainage, erosion and sediment control measures
- + Knowledge of sediment basin design and operation (including Type A & B basins)
- + Achieving successful revegetation on all sites
- + Water quality monitoring (turbidity, TSS, pH)
- + Inspection and auditing requirements





# Course program

## 1. INTRODUCTION, EROSION RISK & SOILS

- + Introduction to the issue of erosion and consequences of sedimentation on our environment
- + Overview of relevant legislation
- + Forms of erosion and erosion drivers
- + Erosion risk assessment (RUSLE)
- + Key soil properties, sodic & dispersive soils
- + Soils as a growing media

## 2. SEDIMENT CONTROL

- + Role of sediment control measures and compliance requirements for capture of sediment laden runoff
- + Review of sediment control measures used onsite and discussion on their performance and limitations
- + Basic construction and maintenance requirements for all types of sediment controls
- + Overview of sediment basin design standards, operation, treatment and maintenance requirements
- + Emerging treatment technology including auto dosers (rainfall and flow based activated) and rapid settling coagulants & flocculants

## 3. DRAINAGE CONTROL

- + Design and construction standards for temporary drains and diversions
- + Use of clean and dirty water diversion drains to manage runoff and control erosion generation
- + Comparison of drain lining options and rock check dams
- + Works within a waterway and temporary crossings

## 4. EROSION AND REVEGETATION

- + Using erosion control techniques to manage soil stockpiles, stabilised site access, temporary work areas and to achieve final site stabilisation
- + Comparison of various erosion control products performance, suitability for nominated works and installation and maintenance requirements

# Course presenter

## TERRY CLARK

Terry Clark is an Environmental Engineer with over 14 years direct experience in the area of soil and water management, specifically erosion and sediment control. Terry regularly presents a range of ESC training courses and is highly respected within industry as both a technical expert but also someone who can clearly communicate and provide a practical perspective. Terry has been invited by Griffith University to sessional lecture Engineering Design and has previously presented ESC training at Sydney TAFE.



Terry is a Certified Practitioner in Erosion and Sediment Control (CPESC), as well as a Registered Professional Engineer of Queensland (RPEQ) and holds a Cert IV in Training and Assessment. Terry has broad experience within the environmental field having previously worked within both private industry and Government. He has developed an appreciation and detailed understanding of the entire development process from the initial project conception, design and construction phases and subsequent final delivery.

## Course fees

### PUBLIC COURSE

- + Attendance at one of the advertised courses
- + Limited to 20 attendees
- + Includes catering (morning tea, lunch and refreshments), venue hire, training tools, printed course notes and certificate of attendance (8 PDUs)
- + **\$500/person ex gst**

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### PRIVATE COURSE

- + Presentation onsite
- + Customised content specific to attendees
- + Flexible timing to suit work rosters
- + Electronic course notes and certificate of attendance for attendees (8 PDUs)
- + **\$3,750 ex gst**
- + Travel expenses for presenter may be additional depending on site/venue location



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