

Drilling and Blasting

Masterclass Program



in ²*D*redging
Solutions adding value



D&B Masterclass Program

Learn about Drilling and Blasting (D&B) in marine environments, as well as how to estimate progress and understand the activities involved.

Drilling, Blasting and Dredging Rock

[in2Dredging Pty Ltd \(i2D\)](#) is a dredging consultancy founded in 2016 that specialises in estimating services. For this purpose, i2D recently developed Estimator for Drilling and Blasting (E₄D&B), which accurately estimates drilling, blasting and operational production in rock that cannot be dredged due to its strength. In the dredging world, marine Drilling and Blasting (D&B) is considered a pretreatment as the blasted rock needs to be removed by a dredger.

E₄D&B has been further developed over the last few months and can now model any drilling method. Clients rely on i2D's E₄D&B for estimates that they can subsequently use to get firsthand understanding of a project's budget and schedule. E₄D&B also facilitates sensitivity analyses to quantify risks.

i2D's academic knowledge and extensive field experience enables us to estimate production rates accurately and reliably, as well as to explain the basics and share expertise gained in D&B through decades of worldwide working experience.

As i2D has comprehensive knowledge and an in-depth understanding of D&B and dredging within marine environments, clients have often requested that an intensive masterclass such as this be held.

This 2-hour intensive D&B masterclass will include:

- Introduction to marine D&B — Greg Miller
 - ◇ Applications and objectives
 - ◇ Site investigations
 - ◇ Equipment used for clearing, D&B and dredging
 - ◇ Blast design
 - ◇ Explosives
 - ◇ Ground vibration and underwater noise
 - ◇ Underwater shock waves' effects on marine fauna
 - ◇ Blasted rock requirements
 - ◇ Challenges and risks
 - ◇ Standards and available literature
- Estimating for D&B — Simon Burgmans
 - ◇ Input data required
 - ◇ Must know technical specifications
 - ◇ Geotechnical rock parameters
 - ◇ Bench height, area and volume estimates
 - ◇ Drill patterns
 - ◇ Cycle times — drill hole, row and blast
 - ◇ Key performance indicators
- D&B activity cycles — Greg Miller
 - ◇ Activities walkthrough
 - ◇ Drilling, charging, blasting, etc
 - ◇ Fire pattern and all clear to blast



D&B Masterclass Details

Who should attend?

Anyone who is likely to be technically or commercially involved in D&B activities in marine environments.

What will you learn?

- Fundamentals on marine D&B activities
- Conducting D&B sensitivity analyses and quantifying risks
- How to interpret D&B estimates to better understand budgets and schedules
- Impact of contractors' qualifications on projects

Why would you attend?

D&B is not frequently used, but should you be involved, it is important to be trained by subject matter experts on the fundamentals of D&B. This will provide deeper insight on what needs to be focused on and developed.

Where and when?

- From anywhere in the world where there is access to the internet or join us in i2D's offices
- Date: 7 December 2023
- Time: 15:00 – 17:00 Perth Australian time
08:00—10:00 CET
- Cost for 2 hours training is €349



Who is the Presenter Greg Miller?

- Bachelor of Technology and Diploma of Secondary Teaching.
- Ex licensed shotfirer.
- Over 40 years' experience in dredging as well as marine and civil construction.
Over 10 years' experience specifically with marine D&B. Involved with marine D&B for large projects undertaken in Newcastle, Devonport, Burnie and Dampier in the eighties and nineties.
- Has worked for [i2D](#) from its founding.



Who is the Presenter Simon Burgmans?

- Master of Science in Civil Engineering from Delft University of Technology specialising in dredging.
- Over 20 years' experience in dredging, mining and oil and gas, in engineering, estimating and execution phases of projects.
- Founder of dredging consultancy [in2Dredging \(i2D\)](#) and i2D Principal Dredging Engineer.



Contact Us

We are here to help

If you would like to discover how we can assist you to successfully achieve your projects' goals, please don't hesitate to contact us.

Our Approach as Dredging Consultants

- Flexible and self-motivated approach
- Global 24/7 support
- Competitive rates
- Clear and effective communication
- Academic and field expertise enabling innovation
- Confidentiality and integrity

Dredging Support

- Projects are completed safely, cost-effectively and successfully
- Contractors deliver operational improvements
- Engineers address all requirements through suitable design

Our Dredging Consultancy Services

- Programme and Project Management
- Advanced Engineering and Reliable Estimating
- Environmental Approvals, Studies and Plans
- Insightful Geographic Data Processing
- Cutting-edge Research, Development and Innovation

Key Contacts

Simon Burgmans

Dredging Enquiries

Simon.Burgmans@in2Dredging.com

+61 (0)408 134 534

Sandra Gyles

General Enquiries and Administration

Sandra.Gyles@in2Dredging.com

+61 (0)406 862 741

+32 (0)484 101 447

Offices

i2D has a presence in Australia and in Europe.

