

# *Dredging & Reclamation*

## *Masterclass Program*



*in* <sup>2</sup>*Dredging*  
Solutions adding value



# D&R Masterclass

Master the execution of cost-effective and successful dredging and land reclamation projects while avoiding costly budget overruns and delays. Gain a comprehensive understanding of both the technical and commercial aspects of these operations, empowering you to make informed decisions that drive project success.

## Dredging and Reclamation (D&R) Works

[in2Dredging Pty Ltd](#) (i2D) is an independent dredging consultancy founded in 2016, offering support [services](#) to international owners, contractors and suppliers involved in dredging and reclamation projects. With a blend of academic knowledge and extensive field experience, i2D is able to share technical expertise gained from decades of global dredging and reclamation works experience.

Our technical expertise includes a deep understanding of sediments' physical and chemical properties and optimal equipment selection for various soil conditions, as well as their impact on project outcomes. We ensure reliable and accurate production rate estimates by utilising i2D's state-of-the-art modelling [tools](#).

i2D also brings extensive experience in managing key aspects of such projects, having been involved in many project cycles. This enables us to provide comprehensive support throughout the entire project lifecycle, from offering commercial insights for realistic early-stage budgeting, to [resolving disputes](#) during project execution through an in-depth understanding of both the contractor and owner perspectives. Furthermore, we provides expert opinions as part of our [expert witness services](#).

In addition to our technical proficiency, i2D has acquired valuable insights into the environmental impacts of dredging and reclamation and how they can be minimised through careful planning and management. We also guide organisations in securing a social license to operate, ensuring long term project success with sustainable practices.

This intensive 4-day Dredging and Reclamation Masterclass will be led by Subject Matter Experts (SMEs) and will cover the following modules:

- [Dredging Engineering](#) and Reclamation 101
- Fundamental Dredging Techniques Revealed
- Dredger Types Capabilities Explained
- Accurate Dredging Designs and [Surveying](#)
- Hydraulic Fill Fundamentals Uncovered
- Mastering Soil Improvement for any Fill
- Soil and Rock Mechanics Unveiled
- Soil-Fluid Interaction Insights Unlocked
- [Project Management](#): Mitigating Risks, Performance Monitoring and Project Reporting
- Delivering Reliable, Accurate [Estimates](#)
- Pioneering [Environmental Sustainability](#)
- Effective Contract Management

***As our training courses are modular, i2D can tailor modules to suit your needs  
Reach out if you have an interest in specific modules***

# D&R Masterclass Program

## Course Modules Schedule

### Day 1 — Tuesday 26 November 10:00 - 15:30

- 10:00 - 12:00 **Dredging Engineering & Reclamation 101 (Essential/Basics)** — Greg Miller, 2.0 hours
- 12:00 - 12:30 Lunch Break
- 12:30 - 14:30 **Fundamental Dredging Techniques Revealed and Dredger Types Capabilities Explained (Essential/Basics)** — Simon Burgmans, 2.0 hours
- 14:30 - 15:30 **Accurate Dredging Designs & Surveys (Essential/Basics)** — Valerie Biernaux, 1.0 hour

### Day 2 — Wednesday 27 November 10:00 - 15:30

- 10:00 - 12:00 **Hydraulic Fill Fundamentals Uncovered (Basics)** — Simon Burgmans, 2.0 hours
- 12:00 - 12:30 Lunch Break
- 12:30 - 13:30 **Mastering Soil Improvement for Any Fill (Basics)** — Greg Miller, 1.0 hour
- 13:30 - 15:30 **Soil & Rock Mechanics Unveiled (Essential/Advanced)** — Simon Burgmans, 2.0 hours

### Day 3 — Thursday 28 November 10:00 - 15:30

- 10:00 - 11:00 **Soil-Fluid Interaction Insights Unlocked (Essential/Advanced)** — Simon Burgmans, 1.0 hour
- 11:00 - 12:30 **Project Management: Mitigating Risks (Essential/Basics)** — Greg Miller, 1.5 hours
- 12:30 - 13:00 Lunch Break
- 13:00 - 14:30 **Project Management: Performance Monitoring & Project Reporting (Essential/Basics)** — Greg Miller, 1.5 hours
- 14:30 to 15:30 **Delivering Accurate, Reliable Estimates (Specialist/Advanced)** — Simon Burgmans, 1.0 hour

### Day 4 — Friday 29 November 10:00 - 14:30

- 10:00 to 12:00 **Pioneering Environmental Sustainability (Essential/Basics)** — Valerie Biernaux, 2.0 hours
- 12:00 to 12:30 Lunch Break
- 12:30 to 14:30 **Effective Contract Management (Specialist/Advanced)** — Simon Burgmans, 2.0 hours

**Anyone unable to join the full 4-day course can select specific modules to attend**

**Click [here](#) for detailed module content information**

## Where and when?

- **Where:** Anywhere in the world with internet access or join us at i2D's offices, at:  
Unit 2, 48 May Street, Bayswater 6052, Perth, Western Australia
- **Date:** 26 to 29 November 2024, inclusive
- **Time:** 10:00 – 15:30 Perth Australian time
- **Cost:** 4-days training = \$3,240 or €1,999  
Selected modules = \$400 or €250/module

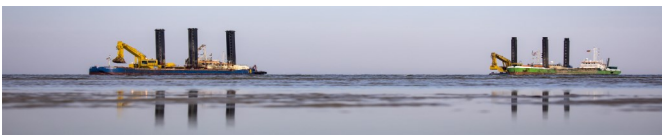
## Dietary Requirements

If attending the course or selected course modules in person, please indicate whether you have any specific dietary requirements when enrolling.

## Lunches, Drinks and Dinner

For participants attending the course in person, i2D will provide lunches. In addition, a social evening will be held at the end of Day 3, as follows:

- 15:30 to 17:00 Drinks and nibbles at i2D's offices
- 17:30 Dinner at a location in Perth city





# D&R Masterclass Details

## Who should attend?

Anyone planning to execute dredging and reclamation projects to ensure their success, as well as those already managing such projects, either from the owner or contractor side, who want to improve their knowledge of dredging and reclamation.

## What will you learn?

- Cutting-edge reclamation techniques
- Optimal dredging equipment selection and their operational limits
- Conducting effective site investigations to inform project planning
- Understanding soil conditions and applying dredging and improvement methods
- Designing and planning successful dredging reclamation projects
- Identifying, mitigating and controlling project risks
- Minimising environmental impacts and enhancing ecological value from dredged materials
- Securing social licenses to operate for long-term project success
- Accurately estimating productivity, project duration and costs
- Navigating contracts and effectively managing disputes

## Why would you attend?

Training by SMEs on the fundamentals of dredging and reclamation is important to gain deeper insights into what to focus on and develop.



### Who is the Presenter **Greg Miller?**

*Bachelor of Technology  
(Mathematics A), Deakin University,  
Australia*

- Over 40 years' experience in dredging, as well as marine and civil construction.
- Has worked for [i2D](#) since its founding as Principal Dredging Consultant



### Who is the Presenter **Valerie Biernaux?**

*Master of Science in Physical  
Geography, University of Brussels,  
Belgium*

- Over 15 years' international experience in marine infrastructure projects across offshore, coastal and estuarine environments.
- Has worked for [i2D](#) on and off since its founding as Lead Dredging Engineer.



### Who is the Presenter **Simon Burgmans?**

*Master of Science in Civil Engineering  
(specialising in dredging), Delft  
University of Technology, Netherlands*

- Over 20 years' experience in dredging, mining and oil and gas, in both engineering and estimating, and execution phases of projects.
- Founder of dredging consultancy [in2Dredging Pty Ltd](#) and Principal Dredging Consultant.



## 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

- Project and Programme Management
- Advanced Dredging Engineering
- Reliable Dredging Estimation
- Insightful Geographic Data Processing
- Environmental Services
- Cutting-edge [Research, Development & Innovation](#)
- Impartial Expert Witness Services
- Comprehensive [Dredging Training](#)

#### Key Contacts

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#### Offices

i2D's business offices are located in Perth, Australia.

