CAPABILITY STATEMENT
www.BMSC.wa.edu.au
The Broome Maritime Simulation Centre operates a world class Transas NTPro 5000 simulator which is accredited by the DNV as Class A in accordance with IMO guidelines. The simulator consists of a full bridge simulator with 210 degrees of vision and a tug bridge with 200 degrees of vision and has a fully integrated bridge system with ECDIS, Radar, engine panels and more. Additionally the simulator has the capacity to integrate different control options including four azimuth thrusters, multiple bow and stern thrusters and hydraulic winch control.

The simulator uses the most advanced software to model environmental conditions such as tides, currents, wind and waves to exacting standards. Furthermore this software provides unparalleled hydrodynamic modelling to simulate a suite of interactions that cannot be replicated through other simulators. Additionally, with our unique licensing arrangement and highly specialised staff we have the capability to undertake the modelling in house making for a rapid, cost effective and high quality development of simulation projects.

Port development analysis and investigations

The Broome Maritime Simulation Centre has developed an extensive portfolio of projects from all over the world that have enabled companies to test, validate and refine their engineering designs and concepts for their port development and expansion projects.

These simulations have saved organisations millions of dollars in the construction of their facilities, ensured the safe and appropriate movement of vessels, and generated hundreds of millions of dollars in revenue.

The development of port models is undertaken with thorough consultation with engineering firms and consultants ensuring that the models are established with the highest degree of precision and accuracy. Similarly the vessels used also undergo comprehensive development ensuring that they perform and behave exactly as they would in the real situation. The Transas technology provides the BMSC with the ability to deliver a detail, standard and quality of work that can rarely be replicated by other simulation systems in Australia.

Our simulation exercises comprehensively test the port models across their entire range of operating conditions. Our team record and report on all manoeuvres and scenarios to extraordinary detail to ensure that all the objectives and goals of the simulation study are achieved to the highest standard.

Few of Our Clients

[Images of client logos: Chevron, Human Energy, bhp Billiton, AECOM, Worley Parsons, and others]
With an increasing burden on organisations to fully utilise their vessels and resources, the BMSC offers a unique opportunity for clients to be trained in a range of technology that can be customised to your specific need and project. This can enable your staff and crews to be trained in your exact project prior to the mobilisation of your fleet.

Furthermore, the BMSC can incorporate emergency procedures training into your projects to test the viability of contingencies and the capabilities of your crew to communicate and competently handle the situations.

Examples of our specialised training programs include the following

OMSA
Provide training to future barge pilots at WAPET Landing, Barrow Island for tug and barge arrivals and departures including:

- Introduction to pilotage
- Maneuvering of barges in confined waters
- Communications with tug masters
- Emergency procedures

Dredging International (Wheatstone)
Provide pre-deployment VoC and vessel handling training to masters and mates prior to the commencement of dredging works at Onslow WA. Training was provided for the following vessels:

- Twin screw tugs hipped to barges
- Work boats supporting dredging activities (multicats, shoal busters)
- ASD split hopper barges.

Commonly requested training includes

- Pilot revalidation
- Emergency Procedure Training
- Cyclone procedures validation
- ASD
- Barge Handling
- Rotor tug

Training and VOC

Port Development Testimonials

"Thank you and the team for a productive and enjoyable week at Broome Simulation Centre. The ability of the simulation team to incorporate client-driven changes to the model, such as the navigation aids and channel shape, meant we were able to test potential design changes during the programme and then re-run the exercise.

Stuart Scott
Principal adviser Rio Tinto"

Capt. Alban Celestine Castellino
Marine Superintendent
Beltship Management Limited.
Location

Located in spectacular Broome on the North West coast of Australia provides clients with a unique opportunity to enjoy the beauty of one of Australia’s most famous tourist destinations whilst also focusing intently on their project in a close knit team environment. The close proximity of restaurants, accommodation, airport, and other amenities, including the world famous Cable Beach, makes your simulation exercise an enjoyable experience. Crews and teams can debrief whilst relaxing over a light snack and admiring the tropical sunset over Cable Beach or alternatively enjoy a beverage at Matsos brewery overlooking the spectacular Roebuck bay.

For those that see an opportunity to mix business and pleasure, Broome is also home to the world famous South Sea Pearls, Sun Pictures, Willie Creek Pearl Farm, Malcolm Douglass Crocodile Park, and is also the gateway to the remote and spectacular Kimberley.