

Title: Learning the ropes on the high seas: Modular ship simulator case study, Kimberley TAFE



Abstract:

Technology has been used to create real-world simulators for training in high-risk occupations for more than thirty years in the airline industry. Simulators are designed to recreate a training environment that so closely resembles real life that trainees undergo all the physical and mental rigours they might be expected to face in a real world situation. In this way, trainees are equipped with essential skills in industries where the cost of training and the risks to major equipment and infrastructure are prohibitive.

While simulators in the past have provided poor reconstructions of the real world at best, the use of a variety of new and convergent technologies now allows us to create simulators for a range of industries and training institutions that more effectively create a real-life environment. Kimberley TAFE's Broome Maritime Simulation Centre is an example of how simulators can take training to a new level. It was established in 2004, uses a unique modular design that is scalable and has developed into a centre of excellence for training in the maritime industry.

This paper discusses the implementation of the Broome facility, issues and possible future directions for training using simulation technologies.

Focus Area: Transportation – Maritime Education

Specialisation: Implementation Technologies

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