

GAC Training & Service Solutions

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Seismic Replenishment at Sea (RAS) operations



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Course outline

This course teaches the best practice for safe handling of support vessels carrying out replenishment at sea for seismic vessels. Over the course of anything from one to five days – depending on the client's requirements – it focuses on practical simulator exercises, and can be tailored to also cover other important elements such as risk assessment, communication, acceptable conditions, etc.

Course description

The training aims to instil best industry practice through a hands-on approach using the National Maritime College of Ireland's (NMCI) Kongsberg 360° full-mission bridge simulator, one of the few of its kind in the world. The course can also cover key areas of RAS operations, such as alongside operations, maintenance towing, line astern refueling and emergency scenarios such as breakdown towing. A variety of environmental conditions are used in simulations to give participants a realistic training scenario. The course is designed for Masters and Chief Officers of both support and seismic vessels. The number of participants on each course depends on its duration, in order to ensure that all participants gain valuable hands-on experience, including a deeper understanding of:

- safe maneuvering using ship's engines and helm;
- natural forces (wind, current, interaction) and their effect on the behavior of ships involved in RAS operations;
- the importance of assessment and planning and the need for alternative plans;
- safe and effective operation management using bridge resource management tools;
- efficient bridge procedure management during RAS operations.

Who should attend?

This course is designed for Masters and Chief Officers of both support and seismic vessels, and for company superintendents.

The lecturer

Course developer and lecturer Clive Hotham specialises in Navigation as a subject. He has been actively involved in simulation, both for the delivery and the development of courses, at all levels for the past four years. Prior to working at NMCI, he was a lecturer at Fleetwood Nautical Campus for three and a half years. With over 31 years of experience at sea, he has 15 years in command of a variety of vessel types.



Clive holds an Unlimited II/2 Masters Certificate of Competency and has an MSc in Maritime Operations from Liverpool John Moores University.

The National Maritime College of Ireland

Overlooking the city of Cork is the world's most advanced maritime academic facility – the \$100 million National Maritime College of Ireland. Just a 45-minute hop from London Heathrow Airport, the NMCI is perfectly located to meet the growing training needs of the global shipping community.

GTSS combines the NMCI's state-of-the-art facilities (including a 17 bridge simulator suite and survival pool) with GAC's global reach and 50 years of shipping experience. Courses can take place at the NMCI, online, at the client's or any other location or any combination of these. Courses are developed and delivered by some of the most respected names in maritime training.



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