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## **Canada chooses Marine Engineering Systems Officer Trainer from Rheinmetall: ship engine room simulator for authentic training**

The Canadian Forces had placed in 2010 an order with Rheinmetall for the Marine Engineering Systems Officer (MESO) Trainer, an advanced ship engine room simulator. Rheinmetall is presenting the project at its stand at CANSEC 2013.

Initially, the MESO system will be deployed at the Canadian Forces Fleet School in Quebec and at many Naval Reserve Division schools in Canada in summer 2013. In particular, its primary purpose is to train engineering officers of the watch (A- ticket and B- ticket) for KINGSTON-class maritime coastal defence vessels.

The system's Full Mission Trainer consists of a trainer workstation, a replica of the control console located in the engine control room as well as all important technical systems located in the engine rooms. The complete simulator scenario and exercise is recorded including camera and voice communication and can be replayed for later debriefing.

Notably, the performance of the main engine as well as all technical supply and power systems of the vessel are simulated true-to-life detail. Operation of technical systems in the engine room and other important compartments is performed via a touch panel, with exact replication of the control devices as well as the system circuit diagram. For bilingual requirements the operator interface can be switched from English to French.

Briefing and debriefing can take place with synchronized repetition of simulator situations, including video and audio recording of exercises.

In addition to the full mission trainer with hardware consoles, a Multi-Task Trainer Simulator consisting of a classroom simulator with 10 training stations is included. These stations can be used either for team training or for individual instruction. Software and the man machine interface features are identical to those of the Full Mission Trainer for easy operation.

Before the trainees will join the fleet school, they can train in the Naval Reserve Divisions around the country with individual Multi-Task Trainer Stations. These stations are linked to the Department of National Defence Learning Management System controlling the training results and training exercises. The individual stations are equipped with the same operator interface as the Multi-Task Trainer and Full Mission Trainer, enabling optimum use of training time.

MESO is a joint development of Rheinmetall Canada and the Simulation & Training division of Rheinmetall Defence Electronics in Bremen, Germany. The MESO trainer is based on the well proven ship engine simulator family SES 6000 from Rheinmetall which is configured to the special needs of the Royal Canadian Navy.

With this new simulator from Rheinmetall, the Royal Canadian Navy will receive a cutting edge training system for their ship engineers.

If you are interested in twenty first century ship engineer training feel free to visit the Rheinmetall stand 1121 at CANSEC 2013.

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