

# Abstract

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## **ASSESSMENT OF ECDIS TYPE-SPECIFIC TRAINING QUALITY and CREW PERFORMANCE**

The dissertation is a study of how to demonstrate ECDIS training programs to be able to minimize the casualties during crisis. Also, the current research aims at analysing M/V COSTA CONCORDIA Tragedy to highlight major drawbacks in trainings provided and prove the importance of enhancing trainings provided. In addition, the research aims to measure the quality of training after ECDIS Type-Specific Training. Finally, the research aims to analyse the training quality main dimensions and how they affect ECDIS operation use. It was claimed that the use of ECDIS increases the safety of navigation when properly understood and used. On the other hand, some others claim that ECDIS is a complex tool which increases risks when used in ignorance. The latter opinion is partly due to the display of different chart formats and the fact that each ECDIS type interacts with the charts in a subtly different way. Thus, professional trainings should be provided to the officers to let them familiar with ECDIS types and different displaying. Unfortunately, this is not the case that happens. Officers are not receiving sufficient and qualified trainings to match with the new generations of ECDIS. Officers receive only the generic training of ECDIS, but this is not sufficient enough to reach to a professional level. The current research analysis of Cost Concordia case shows clearly that officers were not able to use ECDIS in the full and right view, which means a direct shortage in the training provided to them. This is due to the fact that they got only the ECDIS generic training and they were not keen to get the ECDIS Type-specific Training (TST). Also, the researcher analyzes the main factors affecting the quality of ECDIS Type-specific Training. Results show that there is a significant relationship between the ECDIS type-specific Training Course Facilities, Knowledge added value, lecturer's performance and Overall Quality.