

EFFECTIVENESS OF SAFETY MANAGEMENT SYSTEM (SMS) BY
MALAYSIAN SHIPPING COMPANIES IN COMPLIANCE TO THE
INTERNATIONAL SAFETY MANAGEMENT (ISM) CODE.

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Thesis Submitted in fulfillment of the requirements for the Degree of Master in
Maritime Management to the Faculty of Management and Economics
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Abstract of thesis presented to the Senate of Kolej Universiti Sains dan Teknologi
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SEPTEMBER 2003

Chairperson : Saharuddin Bin Dato Abdul Hamid, Ph.D. Assoc. Prof.

Faculty : Management and Economics.

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ISM Code claimed as an effective and valuable method in improving the safety culture in Maritime Industry that could lead to the continuous improvement of safety performance. The benefit of the implementation of the ISM Code for Maritime Industry in Malaysia was evaluated by examining the key elements of the ISM Code and their effectiveness. The key elements assessed include the safety and environmental Protection Policy, Company responsibility and authority, Designated person ashore, master's responsibility and authority, resources and personnel, development of plans for shipboard operation, emergency preparedness, reports and analysis of nonconformities that include accident and hazardous occurrences, maintenance of ship equipment, documentations, company verification, review and certification. Therefore, an effective Safety Management System (SMS) highly

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This study was carried out involved 46 Shipping companies and auditing of SMS was done through interviews with 120 responders by using Safety Management Audit Questionnaires form. The data were analyzed using Gap Analysis and *t-test* to obtain the value of conformance for implementation of ISM Code.

The results showed that the percentage average conformity between companies Safety Management System (SMS) with the standard key elements in the ISM Code was 79.3 %. On the other hand, the percentage average non-conformity between SMS of companies with the standard key elements in the ISM Code was 20.7 %. Therefore, the companies have effectively implemented their SMS according to the requirements of the ISM Code.