

**MARPOL ANNEX IV:
IMPACT OF IMPLEMENTATION TO MALAYSIA MARITIME
INDUSTRY**

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**FACULTY OF MARITIME STUDIES AND MARINE SCIENCE
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IMPACT OF IMPLEMENTATION TO MALAYSIA MARITIME INDUSTRY**

By

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ABSTRACT

MARPOL Annex IV is the international convention for the prevention of pollution by sewage from ships. The convention consist 12 regulation divided by four chapter. Taken into force in 27 September 2003 the convention requires the members to comply with the regulation. In Malaysia MARPOL Annex IV is implemented in 27 December 2010. Malaysia becomes the member of the convention to protect Malaysia water from the pollution that cause from sewage from ships. The decision to become the member of the convention is very good, Because Malaysia is located in international trade route and the number of ship that using Malaysia water is increase by year. The implementation of MARPOL Annex IV in Malaysia may give some impact to the Malaysia maritime industry. The implementation is actually give impact to the maritime industry player such as shipping company, port sector and government agencies. Because the convention is new in Malaysia, there are no studies regarding the impact of the implementation to the maritime industry especially its player. Therefore this study was conducted to determine the impact of implementation of MARPOL Annex IV to Malaysia Maritime Industry. The impact is measure by the changes of the operation of shipping company, port and government agencies . The data regarding the operation changes is taken by the interview with the involve parties. The study also measure the availability of sewage reception facilities in port and sewage treatment plant onboard the ships. data collection regarding number of ship enter Malaysia port, ship detail and ship certificate information from related sector in this study like shipping company, port and government agencies. At the end, all the gathered data is analyse and then determine the impact of implementation of the convention and some recommendation is make to provide the party involve.

ABSTRAK

MARPOL annex IV adalah konvensyen antarabangsa untuk mencegah pencemaran oleh sisa kumbahan dari kapal. Konvensyen merangkumi 12 peraturan yang dibahgi kepada empat bahagian. Dikuatkuasakan pada 27 Disember 2003 di peringkat antarabangsa, konvensyen mengkehendaki ahli- ahli untuk mematuhi peraturan yang ditetapkan. Di Malaysia MARPOL Annex IV telah dikuatkuasakan pada 27 Disember 2010. Malaysia menjadi ahli konvensyen untuk melindungi perairan Malaysia daripada pencemaran yang berpunca dari sisa kumbahan oleh kapal. Keputusan untuk menjadi ahli konvensyen adalah sangat bagus kerana Malaysia terletak di laluan kapal antarabangsa dan bilangan kapal yang menggunakan perairan Malaysia bertambah dari tahun ke tahun. Perlaksanaan MARPOL Annex IV di Malaysia mungkin memberi kesan kepada industri maritim Malaysia. Perlaksanaan member kesan kepada sector industri maritim seperti syarikat perkapalan, pelabuhan dan pihak kerajaan. Disebabkan konvensyen masih baru di Malaysia. Tiada kajian dilakukan mengenai kesan perlaksanaan kepada industri maritim terutamanya kepada sectornya. Oleh itu, kajian ini dilakukan untuk menentukan kesan perlaksanaan konvensyen MARPOL Annex IV kepada industry maritim Malaysia. Kesan perlaksanaan dikaji dari perubahan kepada aktiviti operasi syarikat perkapalan, pelabuhan dan pihak kerajaan selepas konvensyen dikuatkuasakan. Data berkenaan perubahan operasi dikumpul melalui temuramah dengan pihak yang terlibat. Kajian juga menentukan sama ada pelabuhan mempunyai kemudahan penerimaan sisa kumbahan dan system rawatan kumbahan di atas kapal. Data berkaitan maklumat jumlah kapal yang memasuki pelabuhan Malaysia, ciri-ciri kapal dan sijil kapal diperoleh daripada syarikat perkapalan, pelabuhan dan pihak kerajaan. Di akhir kajian ini, semua data yang dikumpul akan di analisa dan kemudian menentukan kesan daripada perlaksanaan konvensyen. Sedikit cadangan dibuat untuk sector-sektor yang terlibat.