

A STUDY ON SHIPBUILDING PRODUCTIVITY
AND ITS CORRELATION WITH SHIPYARD
LAYOUT AT MSET SHIPBUILDING
AT PULAU DUYUNG

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**A STUDY ON SHIPBUILDING PRODUCTIVITY AND ITS CORRELATION
WITH SHIPYARD LAYOUT AT MSET SHIPBUILDING AT PULAU DUYUNG**

**By
WAN SITI AISHAH BT WAN HASSAN**

**Research report submitted in partial fulfillment
The requirements for award of the degree of
Bachelor of Applied Science (Maritime Technology)**

**MARITIME TECHNOLOGY DEPARTMENT
FACULTY OF MARITIME STUDIES AND MARINE SCIENCES
UNIVERSITI MALAYSIA TERENGGANU
2012**



DECLARATION AND VERIFICATION REPORT FINAL YEAR RESEARCH PROJECT

It is hereby declared and verified that this research report entitled: **A study on shipbuilding productivity and its correlation with shipyard layout at MSET Shipbuilding at Pulau Duyung by Wan Siti Aishah Bt Wan Hassan, Matric No. UK 17563** have been examined and all errors identified have been corrected. This report is submitted to the Department of Marine Science as partial fulfillment towards obtaining the Degree of **Bachelor of Applied Science (Maritime Technology)**, Faculty of Maritime Studies and Marine Science, Universiti Malaysia Terengganu.

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DECLARATION

I declare that this thesis entitled “A Study on Shipbuilding Productivity and Its Correlation with Shipyard Layout at MSET Shipbuilding at Pulau Duyung” is originally the result of my own research except as cited in the references.

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KAJIAN KE ATAS PRODUKTIVITI DAN KOLERASINYA DENGAN SUSUN ATUR LIMBUNGAN KAPAL DI MSET SHIPBUILDING DI PULAU DUYUNG

ABSTRAK

Kesesuaian rekebentuk sesebuah limbungan kapal dan susun atur boleh menjejaskan hasil pengeluaran pembinaan kapal. Kajian ini mengambil kira mengenai aliran kerja pengeluaran di bengkel pembinaan kapal dan bagi mengoptimumkan untuk meningkatkan produktiviti kerja. Produktiviti dan kecekapan bengkel limbungan adalah dipengaruhi oleh faktor seperti susunan atur peralatan, kemudahan dan keadaan kawasan kerja. Dalam projek ini, aliran projek di MSET Shipbuilding boleh dipelajari dan dikenalpasti samada ia boleh dioptimumkan atau tidak dan memberitahu pembaca bahawa bagaimana susun atur bangunan boleh mempengaruhi produktiviti kerja di sesebuah limbungan.

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ABSTRACT

The compatibility of shipyard design and its layout affect the production of the shipbuilding. This study concerns about the production workflow at shipbuilding workshop and its optimization to improve its productivity. Productivity and efficiency of a shipyard workshop are influence by various factors such as layout of equipment, facilities and working area. In this project, the project flow at MSET Shipbuilding had been studied and identify whether it can be optimised or not and will convey the readers on how the layout can influence the productivity of work at shipyard.