5S IMPLEMENTATION IN BENGKEL ABC

A THESIS

Submitted in Partial Fulfillment of the Requirements
For the Degree of Bachelor of Engineering
In Industrial Engineering

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STATEMENT OF ORIGINALITY

I declare that this thesis which I wrote does not contain the works or parts of the works of other people, except those cited in the quotations and bibliography, as a scientific paper should.

Yogyakarta, April 26, 2013

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“Improvements are always needed because the time is goes on. Let’s do!”

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**ABSTRACT**

Bengkel ABC is a repair shop that sells spare parts and maintains motorcycle. In addition, there are unused parts (waste) from maintenance activity. Therefore, Bengkel ABC has to organize two types of parts inside the shop, which are new spare parts and waste. In point of fact, the employees did not know how to organize spare parts and wastes in a good order.

This research uses 5S as a tool to organize spare parts and wastes in Bengkel ABC. 5S consists of 5 steps, which are; seiri (sort), seiton (straighten), seiso (shine), seiketsu (standardize), and shitsuke (sustain).

This research evaluated by 5 performance evaluation, there are: free space, payback period, service time data, interview, and questionnaire. Based on the 5 performance evaluation, 5S implementation in Bengkel ABC results several condition. There are 30,200cm² more space after 5S implementation and affect the owner to utilizes these free space to increases the number of stocks. In fact that this research invests some money to make improvements, the company gets their investment in implement 5S back in 48 days.

The average service time are decreased by 4.56 and 10.83 seconds respectively for employee A and Employee B. Based on the questionnaire, both employees and customers give positive respons to the effect of 5S.

Keywords: 5S, repair shop, waste, free space, payback period, service time, interview, questionnaire