

**EVALUATING THE EFFECTS OF 5S ON THE SELECTED
MANUFACTURING COMPANIES IN CAVITE**

THESIS

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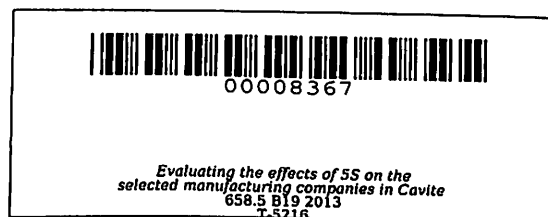
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**EVALUATING THE EFFECTS OF 5S ON THE SELECTED
MANUFACTURING COMPANIES IN CAVITE**

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ABSTRACT

BALINADO, JUSTINE ROY O. and RAMOS, SHYR DARREN F., Evaluating the Effects of 5S on the Selected Manufacturing Companies in Cavite. Undergraduate Thesis. Bachelor of Science in Industrial Engineering. Cavite State University, Indang, Cavite. March 2013. Adviser: Engr. Willie C. Buclatin.

The study was conducted to evaluate the effects of 5S on the selected manufacturing companies in Cavite. The factors considered in identifying the significant relationship of 5S on the selected companies were the quality of work performance, productivity of the company, and safety in the workplace. The companies included were the Purefoods-Hormel Company, Inc., Maxim Philippines Operating Corporation, American Power Conversion Corporation (APC), United Graphic Expression Corporation (UGEC), YST-Yoshita Corporation, and Harada Automotive Antenna Philippines, Inc. The subjects were the selected employees from these companies who were responsible for implementing the 5S program and had concrete knowledge and experience in practicing this 5S program.

Through the use of survey questionnaires, data were gathered from the target companies. Somer's D technique was used for the correlation analysis between 5S and the factors that were considered in the study.

The result of correlation analysis showed how significant 5S is on the companies in terms of quality of work performance, productivity of the company, and safety on the workplace. Through 5S application, it makes a company more competitive and productive; furthermore it does provide a solid foundation for achieving operational

excellence and in fact, some world-class companies claim that there can be no improvement without 5S.

Recommendations in order to improve 5S implementation in companies can be done by implanting this technique in an organized manner which will result to an improved standard cleanliness, efficiency, and success.

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An undergraduate thesis manuscript submitted to the faculty of the Department of Industrial Engineering and Technology, College of Engineering and Information Technology, Cavite State University, Indang, Cavite, in partial fulfillment of the requirements for the degree of Bachelor of Science in Industrial Engineering. Contribution No. _____. Prepared under the supervision of Engr. Willie C. Buclatin.

INTRODUCTION

In view of globalization and competitive market conditions, today's organizations must embrace new concepts to improve workplace management and to focus on value added activities by eliminating waste in operations. They should adopt new ways of working supported by change of mind set and work culture. Good waste management and control can result to improved organizational efficiency, cutting hidden and direct costs, improved speed and quality of work performance, improved safety while creating a visually attractive environment.

"5S Practice" is one of the techniques to improve quality environment, health and safety in the workplace. Defined as the principle of waste elimination through workplace organization, 5S is derived from the Japanese words *Seiri*, *Seiton*, *Seiso*, *Seiketsu*, and *Shitsuke*. In English, the 5S can be defined as Sort, Set in order, Shine, Standardize, and Sustain. Basically, 5S is a method for organizing, cleaning, developing,