

**ANALYSIS OF THE QUALITY CONTROL METHODS
AT NUSSELT INDUSTRIES CORPORATION**

THESIS

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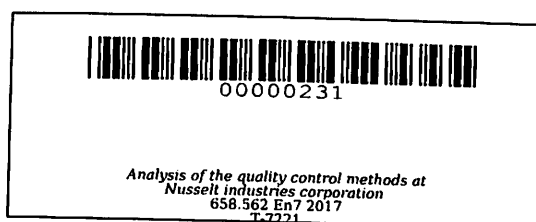
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NUSSELT INDUSTRIES CORPORATION**

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ABSTRACT

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The study was conducted in Nusselt Industries Corporation located at Saffron compound, Governor's Dr, Dasmariñas, Cavite from August 2016 to May 2017. The primary objective of the study was to make an analysis on the quality control methods of the company. The company produces clothing for international brands, so quality must be a priority, for this reason the researchers decided to determine what are the issues that occur in the production, what are the quality control methods being practiced at the company, what are the relevance of the methods to the quality of the product and make recommendations to be able to produce better quality products.

The respondents gathered data from forty (40) management and employees of Nusselt Industries Corporation, specifically, the supervisors (4), line leaders (11) and quality control inspectors (25) through a survey questionnaire. The questionnaire was divided into three parts; the contributing factors to production issues, quality control methods, and quality of the product.

The study showed that in the five contributing factors to production issues, machine and environment are the elements which greatly contributes to production issues while labor force, method, and material doesn't contribute much.

The results of the survey showed that even the raw material, work in process and final inspection is being implemented at Nusselt Industries Corporation.

Given sixteen (16) quality control methods divided into raw material, work in process, and final inspection, and nine (9) quality of the product questions, there are forty five (45) that have significant correlation and eleven (11) has a moderately high correlation, namely: Fabric Strength Test and Raw Material Used in Final Product, Fabric Strength Test and Minimal/Tolerable Number of Rejects, Fabric Color Test and Raw Material Used in Final Product, Fabric Color Test and Minimal/Tolerable Number of Rejects, Workers Performance Evaluation and Product Competitiveness, Workers Performance Evaluation and Customer and Supplier Harmonious Relationship, Machine Maintenance and Product Competitiveness, Ideal Condition of Product to Next Station and Raw Material Used in Final Product, Check Sheet for Defects & Measurement and Raw Material Used in Final Product, Check Sheet for Defects & Measurement and Target Output Achieved on Time, and Correct Label of Product and Raw Material Used in Final Product.

Nusselt Industries Corporation implements quality control methods which are the raw material inspection, work in process, and final inspection which has a great impact on the production. The study shows that quality control methods help to improve the quality of raw materials minimizes number of rejects and builds a harmonious relationship of customer and suppliers.

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ANALYSIS OF THE QUALITY CONTROL METHODS AT NUSSELT INDUSTRIES CORPORATION

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An undergraduate thesis 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 fulfilment of the requirements for the degree of Bachelor of Science in Industrial Engineering with Contribution No. 052. Prepared under the supervision of Engr. Willie C. Buclatin.

INTRODUCTION

The quickest way for a business to ruin its reputation is to create and sell poorly constructed, low-quality products to its customers. Customers always expect quality when purchasing items, and if they are not satisfied with one company's products, they may seek alternatives. Businesses that sell high-quality products are likely to retain their customers and enjoy repeat business. Highly satisfied customers are also likely to recommend a company's products or services to others.

In garment industry, quality and standard of strands, yarns, texture development, color fastness and surface design must be considered to develop a high quality output. Quality must be practiced right from raw materials to the stage of finished product. Therefore, quality control method is applicable to a garments industry to accomplish a satisfactory design of the texture in connection to the level of decision in outline, styles, and appropriateness of parts and wellness of item for the market.