CHAPTER 3

METHODOLOGY

3.1 INTRODUCTION

This chapter discusses about the approach and methodologies used in gathering the data and formulas thought out the research. It is very important to apply suitable methods as it will reflect the findings of the research. Based on the literature review, it can conclude that many criteria that need to be considered in designing an experimental tool for Six Sigma model (SSM).

In this research we going to apply SSM in production and quality related problems to perform improvement and control in the productivity and quality of the product. The SSM methodologies use a specific problem solving approach and specialized Six Sigma tools to improve processes and products. This methodology is data driven with a goal of reducing the number of unacceptable products or events. The ideal technical goal of Six Sigma methodology is to reduce process variation to such degree that the amount of unacceptable product is no more than 3 defects per million parts [13].

The purpose of Six Sigma is to make a product that satisfies the costumer and minimizes supplier losses to the point where it is not cost effective to pursue tighter quality
3.2 DETAIL CHART OF METHODOLOGY

All the work to complete this project has been done step by step following the flowchart. In this project, methodology is an important element to be considered to ensure that the project performs smoothly following the planning. It is also as a guideline in developing the project so that the project is always following the guidelines based on the objectives which are stated in Chapter 1.
3.2.1 Flowchart

Start

Define

Measure

Analyze

Improve

Significant Improvement?

NO

YES

Control

Finish