CHAPTER 1

INTRODUCTION

This chapter 1 is about the overall introduction of the project that will be conduct in Sapura Machining Corporation. It consist of the research background, problem statement, objective, significant of research, and scope of study progress in final year project.

1.1 RESEARCH BACKGROUND

Kaizen is one of the method used in Malaysian’s industry to improve their productivity and standardized their work for workers. In manufacturing the important things is to improve the productivity and reduce the waste but not reduce the quality of the product. So, in order to realizing the aim, the lean concept need to be implement such as kaizen strategy.

Kaizen is one of the lean manufacturing tools. It comes from Japanese words which is “Kai” “Zen” which means continuous improvement. To make an improvement, an observation must be done. The observation in the line production we call it as a “Gemba”. Then the kaizen strategy can be implement in the area that have the opportunity of improvement.
Why we need kaizen? This is because kaizen can make our system become better. The continuous improvement not only contribute by the engineer but also involve all of the workers in the factory include the cleaner. So that, the improvement not only focus on the machine but also in all floor of factory. A lot of factory in Malaysia already practice and implement the kaizen.

The research study is in Sapura Machining Corporation Bangi Selangor. Here the final year project about kaizen will be conducted. The first step is to find out which line has a problem and low performance. After that, this line will be implement the Kaizen strategy to make the line be better with the continuous improvement. The Kaizen that will be used is 5S and Standardized Work.

1.2 PROBLEM STATEMENT

The production line that has problem with the working environment and low performance will be observe and the data of cycle time will be collected. Making an analysis to implement 5S into that production line so that the working environment and cleanliness of the line production will be better. The cap cam shaft line production have the lower production performance. So, this project study is to identify the problem and implement the better problem solving by using the kaizen strategy.
1.3 OBJECTIVE

There are 4 objective in this project, that is:

I. To identify and study the problem face by the line production that decrease their line performance.
II. To analysis the problem that have been observed and make an improvement by using kaizen strategy.
III. To implement the 5S tools as a kaizen strategy for a better line production performance.
IV. To purpose a standardize work to the line production by using technique Tecnomatix software.

1.4 SIGNIFICANT OF RESEARCH

The finding of this study will give benefit to manufacturing student where they can apply the study in lean production system and production line management in this project. Actually the kaizen strategy are generally used in most company in Malaysia as Lean Manufacturing. So, this kaizen strategy is good to be a project for student so they can keep it as an experience for the working life in the future.