

## ABSTRACT

This project is to solve the production problems in the existing processes through the application of many approaches such as Pareto analysis, process chart, job design method, and PERT/CPM.

The details of each approach are explained and that include concept, techniques, benefits and limitation. The figures and tables are also illustrated in order to provide a better understanding.

Furthermore, background of the company is described and analyzed to find out all possible problems. Also, such problems are prioritized to know the most severe ones.

Then, such problems are grouped according to similarity and relatedness. Each problem in each group is discussed and rectified by different ways. Moreover, it also provides an example of the production process of party wagon which is the best sold product and the solutions to the existing problems through the application of process chart, PERT, and job analysis method.

Further, the processes of production are reduced by applying PERT technique. As a result, the new process has less procedures, thus it takes less time for the production. Also, job design method is used to improve worker performance so that they can perform the jobs efficiently.

Since the implementation of this project takes a long time, the result of the implementation cannot be produced within the limited time frame. Therefore, it will be a continuous flow of work which needs to be adjusted to ensure the effective solution to the problems.