

IMPROVE AN EXISTING MANUFACTURING PROCESS USING COMPUTER SIMULATION MODEL APPROACH

Prepared by: Lee Tian Yong

ABSTRACT

The title of this project is to improve an existing manufacturing process using computer simulation model approach in a manufacturing company. The main objective is constructing a computer model and performs analysis to improve the process.

The process line that I choose for my investigation is an assembly section in a television power supply manufacturing line. This is because I found that the major problem occur in the company are involves in the assembly section. The problems are too many electrical tests for the product, inconsistent of the performance of the operators, and the workload of each operator is divided unequally. To solve the above problem, 3 approaches are time study technique, analyzing the improvement using ARENA simulation software and adding or subtract workstation to reduce the bottleneck nt he station.