

ABSTRACT

According to the goal of boosting up the company profits, most of the company will be focusing on effective cost reduction instead of price negotiation with suppliers. Internal cost becomes the significant factor, especially in electronic business which requires good quality and new technology at the lowest price. Therefore, in order to achieve customer satisfaction, the company recognizes that the competitive advantage will belong to the company who can offer the lowest price with good quality and responsiveness.

In order to gain a competitive edge in business, the company realizes that improving production yield by decreasing waste in production line is the priority. The result can be directly affected to company performance, lead time, and cost. With reference to the company strategy of high mix low volume product, this project focuses on the product by using criteria having the highest revenue and continuous demand for conducting the concept of DMAIC. This project finds that there are 4 main factors that cause low production yield, including false reject, missing part, solder bridging and connector misalignment. The root cause comes from machine and man. The analyze phase in this project, mainly using C-E analysis and team brainstorming requires an observation on the shop floor in order to define in-process actual issues at each process step. The result shows that implementing DMAIC can achieve the company target for improving the production yield.

However, this project is put into actual implementation at the ABC Company. Thus, the method, technique, and tool can be used in ABC Company only. It depends on products and reject criteria as well as company policies.