

ABSTRACT

Quality control is needed by all companies and is no exception to the industry of making leather shoes. This is because the leather shoes industry is required to continue to create a choice of comfortable and shoes stylish. One method used in the process quality control is the method Six Sigma with the DMAIC stage (Define, Measure, Analyze, Improve, and Control) on the Marasabessy CV in Bandung.

This research is a study of the application of quality control by using the method six sigma to reduce defective products in making machete shoes. The research was conducted aimed at knowing the application of the method six sigma by using the DMAIC stage in reducing the defective product of making machete shoes. The research method used is descriptive research method. Data collection techniques used in field research and library research.

Based on the results of the study it can be seen that the quality control using the method Six Sigma with the DMAIC stage is not optimal because there are still defects that are still high in the DPMO calculation of 14095.90 out of one million opportunities and the average Sigma level of 3.801 has not reached 6 sigma on the map control of machete shoes is in an unstable state, there is still data above UCL and data that is below LCL. So that in giving the improvement proposal in stage analyze and carried out the control in the last stage so that when carried out again method six sigma machete shoe defect can be reduced.

Keyword: Quality Control, Six Sigma, Defect