

ABSTRACT

XYZ company is a company that produces Decathlon shoes, based on data obtained from the QA division, it is known that the painting process is one of the processes that produces the most types of defects, namely dirty defects and uneven paint. After calculating the sigma value, the sigma value is 3,551, so it is necessary to improve the design of the closing aid and the working method of the tool.

The method used in making this final project research, the first is DMAI, to define is done to find out whether the process has a problem or not and identify the type of defect that occurs in the process, then Measure to calculate whether the data shows that the process has a problem. analyzing improvements such as what should be done to improve the process, and finally it is Improve, namely by designing the tools and working methods that will be done.

For improvement proposals carried out in this final project research is carried out based on the types of defects that occur, for dirty defects, a repair proposal is made in the form of designing a cover aid to make it easier for operators when carrying out the paintin process as well as designing ways of working for the tools so that the operator becomes easy to operate the tools. , for the uneven paint defect, reward and punishment is made.

The recommendations proposed by this study for the next final project research are a continuation of the method in this final project, namely DMAIC, where further research will focus on Control after the proposed improvement design has been applied to the company, so that it can see whether the proposed improvement design is good.

Keywords: Decathlon, Uneven Pain, Dirty, six sigma, ergonomic