

Abstract

This independent study is the improvement of manufacturing process by reducing wasted operation. The case of interest is the fabricator of aluminum product for household. The principle of motion and time study, value creation, ECRS technique and production line balancing will be used in order to order to reduce the waste of work.

From the study, it was found that there were the waste in process including waiting, unsuitable operating and extra transporting. The improvement by trying to reduce there wasted resulted in the increment of working efficiency. It was also found that the productivity increased from 1.42 to 2.04set/man-hour or increase for 43.60%. The balance efficiency increased from 87.87% to 91.54% or 91.54% or 3.67%. Furthermore,the manpower was reduced for 12.5%.