THE INFLUENCE OF IMPROVING THE ASSEMBLY PROCESS ON THE ORGANIZATION AND OPERATION OF A PRODUCTION LINE

Andreea BRĂTIANU[1]

Rezumat: *În această lucrare este descris un prim pas în procesul de îmbunătățire a unei linii de producție. Pentru a putea îmbunătăți un proces de asamblare este necesar să-l analizam din punct de vedere al configurației, locatiei, dar si din punct de vedere al timpilor de operare. Scopul principal este acela de sincronizare a locurilor de muncă și creșterea productivității.*

Abstract: *In this paper was described a first step in the process of improving a manufacturing line. In order to be able to improve an assembly process, it is necessary to analyze it from the point of view of layout, location, but also from the point of view of line operation times. The main goal is to synchronize jobs and to increase productivity.*

Keywords: Technological system, Assembly line, Line indicators, Layout.

1. Introduction

Usualy, for an Automotive Company, policy is conducted mainly along the following lines: increase the quality of staff, steady decrease in non-quality costs, react better to meet customers requirements and to solve problems, regulatory compliance for the environment, optimizing natural resource consumption, better waste management, prevent any type of pollution, chronic or accidental.

The theme aims to improve the production process of evaporators, by applying specific improvement methods in order to synchronize jobs and increase productivity. During the research, the following steps were followed:

- description of the technological process of assembling the vaporizer;
- presentation of the initial situation of the assembly line;
- presenting the problems identified on the assembly line;

In order to be able to improve the process, it was necessary that the entire assembly line of the evaporator be analyzed. Was performed the analysis of the activities and especially their durations in order to highlight the blocking positions.[1]

[1] Master CMP student, Faculty of Industrial Engineering and Robotics, National University of Science and Technology POLITEHNICA Bucharest, Spl. Independenței 313, ZipCode 060042, E-mail: andreea.bratianu97@yahoo.com