

OPTIMIZING THE PREPARATION PROCESS FOR PAINTING AUTOMOTIVE PLASTIC COMPONENTS

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Rezumat. *Necesitatea studierii procesului de pregătire pentru vopsire al barelor de protecție din domeniul autovehiculelor, a venit în urma constatării unor defecte de calitate pe produsul final, care conduceau la costuri suplimentare pentru retuș și la un timp suplimentar care, de asemenea necesita costuri financiare și întârzierea livrării autovehiculului către client. Scopul lucrării este de a implementa idei de optimizare a procesului de pregătire pentru vopsire al barei de protecție pentru a elimina spre zero defectele de calitate, de a optimiza procesul, de a reduce cheltuielile cu personalul, cu noncalitatea, cu materialele utilizate și într-un final, pentru a produce bare de protecție fără generare de costuri suplimentare și realizate bine din prima.*

Abstract. *The need to study the process of preparation for painting bumpers in the automotive field came from the finding of quality defects on the final product, which led to additional costs for rebutting and additional time which also required financial costs and delaying the delivery of the vehicle to the customer. The purpose of the work is to implement ideas to optimize the protection bar paint preparation process to eliminate to zero the quality defects, to optimize the process, to reduce the cost of staff, non-quality, materials used and finally, to produce bumpers that are well-made at the first attempt without generating additional costs.*

Keywords: optimization, costs, process, non-quality, staff.

1. Introduction

Quality assurance means preventing the occurrence of non-quality by taking appropriate measures to ensure that a product or service will meet the quality requirements. [1] The models that underlie the actions to improve the operations in the bar preparation process are Lean Manufacturing and Kaizen.

Kaizen is a Japanese philosophy that focuses on continuous improvement in all aspects of life. The activities improve all functions, from management to assembly line workers. By improving standardized activities and processes,

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