
Mestrado (MA)

MULTIMETODOLOGY FOR DIAGNOSIS AND INTERVENTION IN AN ORTHOPEDIC WORKSHOP

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ABSTRACT

This paper aims to evaluate and propose intervention actions in the productive chain of one Orthopedic Workshop located in Rio de Janeiro, Brazil, using the problem structuring method for complex social problems CHAP². Based on the qualitative assessment, a discrete events simulation model is proposed for the manufacture of orthopedic orthotics, to draw a quantitative assessment and an alternative improvement scenario. Besides that, actions are presented about the implementation of a production planning and control process to manage the industrial activities. As results, we highlight the complete and exhaustive diagnosis of the reality of the Orthopedic Workshop, the increase of production capacity, the establishment of key performance indicators and the reduction of manufacturing lead time.

Keywords: Orthopedic Workshop; CHAP²; Discrete Events Simulation.

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