

Expiration Management Model of Supermarket Products for Companies in Gualaceo: A Case Study "La Tienda de mi Pueblo"

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Abstract: “La Tienda de mi Pueblo” supermarket, located at Gualaceo, opened its doors to Production and Operations Engineering to develop an expiration management model (MOGESCA) that deals with a daily problem: the exhibition of expired products. The execution of several studies, the approach of solution strategies and the redesign of the empirical methodology of supply, logistics and commercialization process allow to design this model and apply it through a pilot plan in bakery, dairy and jammed products.

During the model development, methodologies and tools were created and applied in order to combine creativity, logic and common sense. The Inventive Problem Resolution Theory (TRIZ), the CANVAS business model, the sensory system and the Visual Management stood out from all methodologies; and, the company values, the technical library and the expiration notebook stood out from all tools. The usage of resources was optimized by a working group who gave priority to reusable ones available at the supermarket.

The results showed that MOGESCA is effective as a result of the minimization of the expired products amount. The model could be applied in any related company in Gualaceo and it could contribute to human health and welfare, environment conservation, legal accomplishment and academy learning. Mainly, the success of the model is due to teamwork, an offered custom service, optimum operation of the sensory system, prevention of unnecessary delays and the accomplishment of a politics and procedures manual.

Keywords: Expiration date, supermarket products, management model, TRIZ, solution strategies, sensory system