Using the Method Adapted TRIZ as a Tool to Support the Implementation of Cleaner Production

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Abstract

This work reports the experience of applying the TRIZ (Theory of Inventive Problem Solving) adapted method as a support tool to Cleaner Production Program (CP) implementation. The focused CP implementation case study was carried out in a company that manufactures toys and industrial components. As the CP methodology does not utilize any specific tool for the formulation of solutions to the prioritized cases, it was proposed to apply the TRIZ adapted method. This tool showed efficacious inasmuch as it allows an approach on the organization's improvement opportunities in an unconventional format, bringing greater freedom for the development of creative ideas and solutions, as a result of a broader evaluation of the problematic situation. The waste generation reduction results and the consequent decrease in costs after CP implementation aided by the TRIZ adapted method showed satisfactory, leading to a positive evaluation of this experience.

Keywords: Cleaner production, TRIZ, problem solving, rotational molding