



Academic

INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

“TEN YEARS WORKING TOGETHER FOR A SUSTAINABLE FUTURE”

Applicability of Lean and Sustainable Production in Sanitizers and Cosmetic Industries in the State of Goiás

ALMEIDA, S. ^{a*}, SOUZA, F. F. ^b, PASQUALETTO, A. ^b, TEIXEIRA, D. ^b

a. Pontifícia Universidade Católica de Goiás - PUC-GO, Goiânia

b. Instituto Federal de Educação, Ciência e Tecnologia de Goiás - IFG, Goiânia

**email do Autor: soraia@sheq.com.br*

Abstract

The objective of this study was to address the environmental practices in the companies of cleaning products (sanitizers) and products of personal hygiene, perfumery and cosmetics (HPPC) in the state of Goiás through concepts of lean production, green manufacture and analysis of management practices in order to reduce environmental impacts, highlighting its tools and principles, as well as the benefits and losses of the combination of both practices, and presents the concrete results, indicators and their effects, by means of explanatory analysis, exposing a hypothetical-deductive scientific method of questionnaires of national and regional sanitation companies supporting or not the theories already proven. The results demonstrate that the industries of these branches that are more familiar with good practices of lean production (PE) and environmental management (GA), obtain better operational performance.

Keywords: *Lean Manufacturing, sustainability, Environmental Management.*
