

LIST OF LEAN MANUFACTURING PRACTICES IN THE ADOPTION OF CLEANER PRODUCTION: A STUDY USING STRUCTURAL EQUATIONS

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Abstract

The objective of this article is to verify whether lean manufacturing (LM) practices are positively related to the adoption of cleaner production practices (P+L) in industries in the metal-mechanic sector, in order to test the hypothesis - widely argued in literature - that when identified as lean production, the industry also tends to be green production. The research was carried out with industries of the branch in the states of Rio Grande do Sul and Santa Catarina, Brazil, through a survey, used in order to measure their opinion, identifying what are the main affinities, the P+L and ME practices and how much they relate to each other in an indirect and practical way. The analysis of this study had a quantitative and descriptive character. In the end, the objective was achieved; revealing that lean manufacturing influences cleaner production by 89%.

Keywords: lean manufacturing, cleaner production, structural equations.