

LEAN-INTEGRATED MANAGEMENT SYSTEM FOR SUSTAINABILITY IMPROVEMENT: AEROSPACE INDUSTRY APPLICATION

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This work addresses the challenges that aerospace organizations faces in incorporating sustainability into their business strategy and operations. In response to such demand, the Integrated Management System (Quality, Environment, Social Responsibility, and Occupational Health and Safety) integrated with Lean Manufacturing presents itself as a competitive response for aerospace organizations to thrive in the industry under the principles of sustainable development. The investigation of the current models used by organizations reveals the use of Integrated Management Systems and Lean Manufacturing in a non integrated and often conflicting form. The objective of this work is to propose a model for the improvement of the corporate sustainability based on the integration of the Integrated Management System (Quality, Environment, Occupational Health and Safety, and Social Responsibility) and Lean Manufacturing System. The proposed model was applied in an organization of the aerospace industry and the implementation of the proposed model has the potential to improve the organization sustainability performance, with a faster and more flexible production, reducing inventory and quality problems, environmental, social responsibility and occupational safety and health problems, in order to make the company more competitive.