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A Standardized Work Methodology To Increase Manufacturing Productivity

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Abstract: The present document explains the application of a standardized work methodology to identify, measure, and improve shop floor operations, as an effort to increase productivity levels at a global company, located in Monterrey, Mexico. From the lean manufacturing perspective, the relationship between waste elimination and productivity increase, supported by diverse manufacturing techniques, represents the major concern for achieve a one-piece flow system, as it is described in this paper. The assessment of several potential operating scenarios was done with the help of discrete simulation models. Results of the system implementation are also given.

Keywords: Productivity, standardized work, work-in-process, one-piece flow, waste elimination, cellular layout, kaizen, synchronization of operations, takt time.