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The Application of Methods Engineering as a Tool of Analysis in the Electrical Industry

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Abstract: Methods engineering is a set of knowledge, principles of work design and graphic tools that are applied on the design and improvement, processes and working methods of the company. The present research documents the producing process of high voltage nozzle in an electrical industry company dedicated to the manufacture of transformers. The purpose is to analyze the operations, which includes the manufacturing process, through direct observation, work measurement, the interview method and the use of the "seven questions" and the operation analysis principles; in order to reduce production time, the best use of material and human resources to carry out a certain task. The bottleneck operation was improved in order to increase the production capacity so the demand can be achieved. The efficiency and capacity variables of both, the current and proposed method were verified to show the suggested changes and appreciate the economic benefit generated.

Key Words: Methods Engineering, Work Measurement, Bottleneck.