

## **EFFECTIVE APPLICATION OF LEAN MANUFACTURING IN LEADING INDUSTRIAL COMPANY – A CASE STUDY**

*Salloom, A., Al-Juboori<sup>1</sup>, Mohannad Y. Al-Bashabsheh<sup>2</sup> & Omar Maaitah<sup>3</sup>*

*<sup>1</sup>Professor, Department of Mechanical and Systems Engineering, Faculty Engineering, Muta'h University, Jordan*

*<sup>3</sup>Professor, Department of Engineering, Faculty of Engineering, Muta'h University, Jordan*

### **ABSTRACT**

*The main objective of this study is to assess the application of Lean Manufacturing in the companies adopting Lean management in order to improve its effectiveness, in addition to develop a track for other companies planning to adopt Lean management. This study explored key literature resulting in the development of a new model of application. Moreover, a special questionnaire developed as tool for gathering information gapping the bridges toward the effective application and problem solving. Additionally, the newly designed model and tool were used in a case study to assess the application in one of the leading Jordanian manufacturing companies. Descriptive statistics were used in this study, the study sample included (125) participant. Moreover, SPSS software was used in the data analysis. The results showed that the general arithmetic mean of sample answers on the statements which evaluates the effective application of Lean Manufacturing, has reached (3.203) of (4) with standard deviation of 0.725 representing high degree of estimation. This success is justified by satisfying the critical requirement of application.*

**KEYWORDS:** *Lean Manufacturing, Management, Statistical Analysis, Employees, Questionnaire, New Application Model*

---

### **Article History**

**Received: 04 Dec 2019 | Revised: 20 Dec 2019 | Accepted: 07 Jan 2020**

---