



**Independent Study Title** Influenced Production Factors in Production Efficiency : A Case Study of Wacoal Lamphun Company Limited.

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### **Abstract**

The purpose of this Independent Study on “Production Factors Effecting Productivity: A Case Study of Wacoal Lamphun Company Limited”, is to study the relationship of Production Factors to Productivity and develop a Mathematical Model to forecast the productivity value. The Study Method commenced with analyzes and categorization of problems in Production by using a Cause and Effect Diagram or Fishbone Diagram , then gathering of Productivity data and all Production Factors from Production documents and Records. The gathered data were analyzed by using Computer Software, SPSS for Windows, and Multiple Regression Tools was used to study the relationship between Production Factors and Productivity. Stepwise method was also used to filter independent factors and develop the Regression Model.

The result of study shows that Production Factors which effect Productivity at Wacoal Lamphun Company Limited are Machine Setup Time, Defect rate of Production, Sewing Skills of Operators, over time, and Numbers of Models produced. The Regression Model can explain about 72.5% of the relationship between Production Factors and Productivity.

This result of Study is useful to Wacoal Lamphun Company Limited in the way of understanding how Production Factors have impact on Productivity and can be improved to appropriate levels which can increase Productivity. Hopefully this study may be useful to interested persons whom may study and apply to other Productions.