

Significance of Learning Curves in Manual-Labor Intensive Industries

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Abstract: This study specifically focuses on the Industry where manual labor is intense. Human behavior can be considered an important factor in manual labor. Various factors can impact an operator's performance working on the assembly line. This study aims to understand the impact of the operator's learning curve on the productivity of the assemblyline. With the help of time study data of the operators working on different stations, we can analyze the efficiency of each operator; the developed predictive model can help us understand and analyze the operators' productivity. Using this model, we can create a scheme allowing operators to perform with optimized working efficiency.

Keywords: Learning Curve, Predictive Model, Human Behavior, Manual Labor