

عنوان مقاله:

Development of Lean Implementation Framework for Indonesian Batik Small and Medium-Sized Enterprises

محل انتشار:

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خلاصه مقاله:

Small and Medium Enterprises (SMEs) face significant challenges in the global competitive market. An approach SMEs adopt to meet these challenges is implementing lean principles through the framework of lean implementation. Although some lean implementation frameworks have been introduced, previous research indicates that SMEs often need assistance applying this framework. This is caused by the need to adjust the lean implementation framework, which is considered limited by the resources owned by SMEs. Therefore, further research discusses adjusting the lean implementation framework and SME resources needed to improve operational performance. This study emphasizes the need for a lean implementation framework tailored to SMEs' scale and resources to reduce waste and improve operational efficiency. The lean implementation framework is developed by combining the lean implementation framework with the plan do check act (PDCA) approach and simulation to produce continuous improvements. The framework development stage evaluates the existing lean implementation framework based on previous research and SME resources. Furthermore, the framework that has been evaluated is grouped based on the plan, do, check, and action stages. This activity is carried out to ensure that lean implementation activities are a continuous improvement cycle. The final stage is adding simulation steps to the do and check stages to evaluate proposed improvements. The proposed framework was tested through a case study at Batik SME. The results showed the benefits and effectiveness of the proposed framework in the form of a ۱۲.۹-day reduction during work completion and an increase of ۱۸.۳% in the operator's utility

کلمات کلیدی:

Lean implementation framework, Plan Do Check Action, Simulation, Batik

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