

Model penerapan six sigma berdasarkan critical success factors (CSF) untuk industri kecil dan menengah di Indonesia = Six sigma implementation model based on critical success factors (CSF) for Indonesian small and medium industries

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Abstrak

Penelitian ini bertujuan untuk merancang dan membangun model critical success factors dalam penerapan Six Sigma pada industri kecil dan menengah di Indonesia serta kaitannya terhadap kinerja industri. Critical success factors, penerapan Six Sigma yang sukses dan pengaruhnya terhadap kinerja industri divalidasi dan dianalisis keterkaitannya. Metode yang digunakan dalam penelitian ini adalah Structural Equation Modeling SEM berbasis Partial Least Square PLS dengan bantuan software SmartPLS. Penelitian ini menggunakan data sebanyak 54 data industri kecil dan menengah di Indonesia yang telah menerapkan Six Sigma. Hasil penelitian menunjukkan bahwa critical success factors yang memiliki pengaruh positif terhadap kesuksesan penerapan Six Sigma adalah keterlibatan dan komitmen manajemen puncak, pelatihan dan pendidikan, perubahan kebudayaan dan infrastruktur industri. Cukup mengejutkan bahwa kerjasama tim memiliki pengaruh negatif terhadap kesuksesan penerapan Six Sigma. Selain itu penerapan Six Sigma yang sukses memiliki pengaruh positif terhadap kinerja industri kecil dan menengah di Indonesia. kemudian, model yang dirancang dan dibangun dinyatakan valid untuk menunjukkan hubungan antar critical success factors dalam kesuksesan penerapan Six Sigma terhadap kinerja industri kecil dan menengah di Indonesia.

This study aims to design and build critical success factor models in the application of Six Sigma to small and medium industries in Indonesia and their relation to industry performance. Critical success factors, successful implementation of Six Sigma and its impact on industry performance are validated and analyzed. The method used in this research is Structural Equation Modeling SEM based on Partial Least Square PLS with the help of SmartPLS software. This research uses 54 data of small and medium industries in Indonesia which have implemented Six Sigma.

The results of the study show that critical success factors that have a positive impact on the successful implementation of Six Sigma is the involvement and commitment of top management, training and education, cultural change and industrial infrastructure. It is surprising that teamwork has a negative impact on the successful implementation of Six Sigma. In addition, the successful implementation of Six Sigma has a positive impact on the performance of small and medium industries in Indonesia. then, the designed and built model is valid to show the relationship between critical success factors in the successful implementation of Six Sigma on the performance of small and medium industries in Indonesia.