

Abstract

Dr. Magdy Ahmed Khalaf

Investigating the Effect of Critical Success Factors on Six-Sigma Practices

Literature review revealed that there is a relationship between Critical Success Factors and the success of Six-Sigma programs implementation. However, there seems to be little empirical evidence about specific Critical Success Factors that should be adopted and their expected influence in developing countries. Hence, it deem appropriate to identify these factors and their influence on applying Six-Sigma programs. It is claimed that deductive approach is most appropriate for this research. Reliability test using Cronbach's Alpha was used to test the goodness and validity of response data. Factor analysis was deployed to test the validity of the measures (Critical Success Factors) and describe the underline structure in data matrix variable resulted in six variables. The final step in the analysis was stepwise regression analysis through which the research succeeded to identify variables affecting variation of Six-Sigma programs implementation with only four variables namely Foundations, Communication and Support, Alignment, and Resource Management. Furthermore, the research provides empirical evidence that proper/improper Selection of Critical Success Factors significantly affect the success of Six-Sigma programs implementation.