

**A COMPARATIVE ANALYSIS OF APPLICATION OF SIX SIGMA PROJECT
MANAGEMENT TECHNIQUE IN SMALL AND MEDIUM SCALE
CONSTRUCTION COMPANIES IN NIGERIA**

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ABSTRACT

The critical objectives of construction industries nowadays is to complete a project within a stipulated time, scope and budget through process standardization and efficient use of resources, provided by project management techniques such as Programme Evaluation and Review Techniques, Critical Path Method, Cost Benefit Analysis etc. But still most of the construction companies face poor client satisfaction due to non-completion of the work as per the required standard and specification. Since the development of the Six Sigma in 1980s in manufacturing industry, its popularity as a process improvement method has significantly grown. However, the adoption of this concept is quite new in some construction industry. The aim of this project is to compare Six Sigma method with other Project Management Techniques and investigate the acceptability of its implementation within small and medium scale construction companies. The research in this project made efforts to establish complete analysis of 59 retrieved well developed instruments with data from major professionals in the construction industry. The research concluded that there is no doubt about the positive effects of the implementation of Six Sigma in the construction industry. Particularly, Six Sigma can provide a broader quality concept, detailed performance measurement, coordinated and repeatable process/performance improvement.

Keywords: Six Sigma, Construction industry, project management.