Paper (7)

Title	Improve The Quality Of Projects Via Six Sigma Indicator As A Tool In Proactive Management
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Abstract	Lately, many projects have been suffering from poor quality performance and is explored in lately stage from the project cycle as a rational result for not applying the proactive management initiative. The research problem is crystallized as in spite of a profusion the quality tools in the construction industry and the quality management but there is no clear rational comprehensive indicator based on statistical analysis to evaluate the contractor's previous works before award contract for the further future projects. The study aims to explore the rational comprehensive indicator based on statistical analysis to measure and improve the projects quality via six sigma initiative and insert it to be one of the indicators that the Egyptian Federation for Construction and Building Constructions EFCBC can use in classification and ranking. To obtain the research aims will take a scientific path starting with literature study by presenting the perceptions of the quality performance, define the Six Sigma Methodology and its application in the construction industry and shows the criteria for requirements, classification and Ranking by EFCBC. Then, Applied part on the pilot case study by measuring only one of the project management triangle (cost, time, quality) which is the quality level, so it was necessary make a balance or neutralize by measuring the Implementation performance quality for two different contractors has the same classification and ranking by EFCBC to implement the same project which is Egyptian National Housing Project with the same owner via Six sigma analysis. Finally, The research believe that using the six sigma initiative in measuring the quality of projects will make strong competition in the Egyptian construction market, Hence every contractor will look forward to get more sigma to be better. Keywords— Sig Sigma, Quality Indicators, Performance and proactive.