

Implications of Materials Supply Chain Management on Project Completion Time

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&

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Abstract

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Studies have shown that project delay is a common scenario and has been consistently occurring at an alarming rate. Most projects are delayed because the critical activities of the project were delayed. Therefore, the causes of project delays can be identified through an examination of the causes that produce these delayed start times or extended durations. Hence, the objectives of the study are to examine the relationship between supply chain management and timely project completion, and to identify the factors affecting timely completion of projects through supply chain management. The methodology involved a structured questionnaire administered to construction industry practitioners in FCT, Abuja. A total of 250 questionnaires was administered, out of which 204 (81.6% return rate) was returned, and was analyzed using SPSS. Findings revealed that there exists a positive relationship between supply chain management and timely project completion. Additionally, results showed that cost escalation of construction materials, supply chain orientation, information flow, and supply chain integration are the most significant factors affecting timely completion of projects. Hence, the study recommends effective supply chain management, as well as developing cost estimation techniques to consider price variation.

Key words: Material Management, Project Completion Time, Supply Chain Management

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