

Application of concurrent engineering philosophy to the construction industry

- 5 Benefits of Concurrent Engineering



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Lean Principles in Construction

A conceptual framework of the interface between the design and construction processes. Engineers working on later phases of a project can spend a lot of time waiting for those working on the earlier phases to finish.

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The ideas of lean thinking within the UK construction industry seem to be predominantly targeted to improving quality and efficiency.

Concurrent engineering

The principle of lean is mainly aimed at eliminating waste in process activities in order to reduce process cycles, improve quality, and increase efficiency. This paper suggests that a CE approach in construction may significantly improve the way in which projects are procured.

Construction process reengineering: a case study

During the initial stage, the research evaluated current problems faced by the industry, such as the high degree of fragmentation of industry structure and work processes, adversarial relationships among project participants' lack of communication, etc.

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Authors: , Abstract: Design should be viewed concurrently by three ways as transformation, flow and value generation.

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He has several research interests that include organization and management of projects, the management of information technology, process

reengineering and system dynamics modelling. The second concept is that design activities should all be occurring at the same time, i. Doctoral dissertation — Universidade de São Paulo.

Lean Principles in Construction

Planejamento e controle integrado do projeto e da produção em ambientes simultâneos na construção civil. The research explores the rationale of applying Concurrent Engineering CE philosophy to the construction industry.

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As a foundation for a formal framework consisting of organizing principles and techniques, Work Structuring has been developed to guide efforts in the integration that enhances the development of operation and process design in alignment with product design. In short, collaboration among disciplines eliminates many of the problems engineering teams face every day. The research also investigated the theoretical background of CE philosophy, its application in other industries especially in manufacturing, the rationale for its application to construction, and current practices within the construction industry similar to those encompassed within the CE philosophy.

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