

ABSTRACT

Nowadays the industry's construction strives to maintain control of the activities and processes that are carried out within the company, and that eventually ways can be found to improve and evolve, which is why, with the need to determine the current state of the construction companies, Lean Construction management evaluation tools have been generated, however, the interest in companies that are not on the LC path but plan to do so in the future has been neglected, therefore, the diagnostic instruments that have been created are not fully compatible since they evaluate advanced Lean Construction aspects, which is why this research seeks to create a tool designed for companies that are not Lean, starting from the consideration of the LC triangle that they are ; philosophy, culture and tools, focusing on identifying the natural state of essential elements and ways of working within the company that are closely linked with a future implementation of LC tools, the improvement of cultural aspects and mainly prioritizing two features of the philosophy that are the reduction of waste and the increase of value for the customer. A survey composed of 13 questions and a quantification system based on the interaction of the components of the LC triangle is used, demonstrating those mentioned above, which can have all the possible information. Resulting in percentages of development of each parameter evaluated, identifying in diagrams of radar the most robust components of the company and Pareto diagrams that show the elements less attended. A brief and accurate management diagnosis is beneficial for construction companies since it allows the correction of errors and improvement in processes and activities, reflected in greater control and labor gain for the company.

Keywords: Lean, Lean Construction, interaction, evolution, LC triangle.

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