


Lean approach applied to product development

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Abstract: The various competitive advantages of the application of the principles of the Toyota Production System (TPS), or simply Lean Principle, have created for the companies the need to adapt product design to reality. The responsibility for the scope of the Lean benefits is not only of the manufacturing but also of the products. To fully gain from the benefits of TPS, companies need to consider the Lean principles during the development of products, so that they can generate appropriate designs for the TPS. Accordingly, this article determines its application at the early stages of product development given its influence on the product life cycle and on the entire decision-making process involved in these steps. Thus, this paper proposes a method in which the stages of work are set based on the Lean principles with the goal of creating designs with lower-level waste.

Keywords: Toyota production system, lean principle, product development, lean development.

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