



Implementation of Lean Six Sigma in Indian Manufacturing Industries

¹ Mr. Mohit Chhikara, Assistant Professor, Raffles University, Neemrana.

² Mr. Pradeep Dahiya, M.Tech. Research Scholar, DCRUST MURTHAL

Introduction : The concept of Six Sigma was developed in 1986 by Motorola as a set of tools and techniques to improve the processes. In 1995 this concept was used by Jack Welch as the main concept of the business strategy of General Electric which is used by a number of industrial sectors these days.



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Six Sigma identifies and removes the defect causing elements along with reducing the changeability of the business and manufacturing processes to improve the quality of outputs of a manufacturing process. In this methodology, a set of quality management methods is used to create within the organization for a special infrastructure of the people who can use these methods like experts. An organization follows a defined set of steps to quantify the targeted value of the project while using each project of Six Sigma. For instance the organization can reduce pollution, reduce time cycle of a process and reduce cost of production for increasing profits and satisfaction level of its customers.

The Lean Approach

- Like Six Sigma, Lean is a tool used by businesses to streamline manufacturing and production processes. The main emphasis of Lean is on cutting out unnecessary and wasteful steps in the creation of a product so that only steps that directly add value to the product are taken.
- As far as Lean methodology is concerned, the only way to determine if something has value or not is to consider whether a customer would be willing to pay for it. Any part of the production that does not add value is simply removed from the equation, leaving a highly streamlined and profitable process in place that will flow smoothly and efficiently.

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