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EDUCATION



**Benefits Of
Six Sigma**
In Pharmaceutical Industry



The *Pharmaceutical industry* is noticing declining profits as there is now much opposition coming from generic brands and faults within the manufacturing process. In order to improve this, many corporations are struggling to increase effectiveness within the manufacturing and operational processes by improving their resources, monitoring inventory and decreasing waste and errors.

Within the pharmaceutical industry, there are various IT factors when transitioning from a prevailing management process to a new one. In the Pharmaceutical industry, manufacturers implement Six Sigma or **Lean Six Sigma** in order to decrease their operational costs and ensure great service to their clients. The six sigma quality improvement theory allows businesses to constantly improve and change the industry in a positive direction. Because this process is so complex, businesses will require interoperable and malleable systems that will facilitate data or information to pass across the entire business.

By implementing traditional **Six Sigma** and Lean Manufacturing, many pharmaceutical corporations are able to decrease waste and bring about operative change within the manufacturing process. Instead of having to depend on on end-process testing, Six Sigma is enabling corporations to forecast and destroy errors and therefore give a much needed boost to operative efficiency. This furthermore upsurges the chance of quality products and compliance.

Lean Six Sigma allows information to flow and keeps management well-informed with this information. Within the pharmaceutical industry, mining data and interpreting it both effortlessly and quickly are very important aspects of Lean Six Sigma.

In this industry there is a great necessity for productivity and efficiency. The purpose behind the late pull-out within the manufacturing feature of the industry is due to the liability and cost in revalidating processes. With the help of this methodology's tools and concepts, information is able to be malformed into data that can be used to outdo the opposition. IT factors will support various beliefs which are necessary when instigating this quality improvement process.

The corporations that ensures the six sigma implementation has great prospective to enhance client benefits with regards to improved quality and in some cases also by reducing time to market for new products. Moreover the price reduction for the consumers is not the focus of the six sigma implementation and due to the market circumstances in the pharmaceutical industry this is not expected to be the focus in the future either. This industry has always had an issue with quality and keeping up with other businesses in output and manufacturing aspects of the business. Because of its focus on maintaining processes as they are, this weighs heavily on producing less waste. Implementing Six Sigma can save the pharmaceutical business some billion dollars across the world.

Quality within all industries is vital, but within the pharmaceutical industry, it is necessary. Because lives are at stake, hence, quality, when it comes to producing and manufacturing medicines for individuals, is essential. Because the six sigma quality improvement theory claims less than 3.4 defects per million opportunities, it is worth discovering in any industry, especially this one! As technology becomes more and more united into our daily lives, discovering these theories together is worthwhile for any pharmaceutical manufacturer.

As a result, with its implementation, the pharmaceutical industry will be able to effect positive change. They will be able to decrease and eradicate waste, mend customer service and change the market entirely.

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