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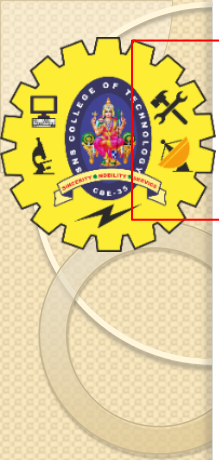
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DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 19AUZ405 – LEAN MANUFACTURING

IV YEAR / VII SEMESTER

Topic – Six Sigma



Lean Six Sigma



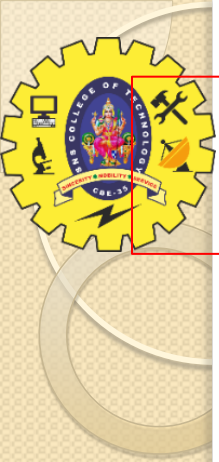
What is Lean Six Sigma?

ASQ (The American Society for Quality) states,

“Lean Six Sigma is a fact-based, data-driven philosophy of improvement that values defect prevention over defect detection.

It drives customer satisfaction and bottom-line results by reducing variation, waste, and cycle time while promoting the use of work standardization and flow, thereby creating a competitive advantage.

It applies anywhere variation and waste exist, and every employee should be involved.”



Lean Six Sigma

Lean Six Sigma combines the strategies of Lean and Six Sigma.

Lean principles:

Its help to reduce or eliminate process wastes.

Six Sigma :

Its focuses on variation - reduction in the process.

Lean Six Sigma :

Its helps to improve the efficiency and quality of the process.



Lean Six Sigma



Three Key Elements of Lean Six Sigma:

Customers:

Lean Six Sigma has brought more concrete meaning to “customer focus” collecting voice of the customer, deriving critical to quality characteristics, identifying value streams, etc.

Processes:

Lean Six Sigma helps organizations focus on consistently producing quality output and improve the value chain so customers get the best quality within expected timelines.

Employees:

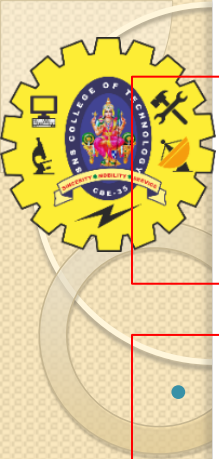
Lean Six Sigma has to be driven as DNA within the organization so all stakeholders at all levels speak the same language and practice what is being preached.



Lean Six Sigma

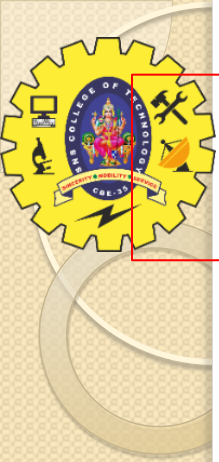
Implementation of the Lean Six Sigma

- Customer delight
- Improving the bottom line
- Enhanced products/service quality
- Employee satisfaction
- Cost efficiency
- Managing and adapting to change
- Enhancing organizational agility
- Building a culture of Operational Excellence



Lean Six Sigma

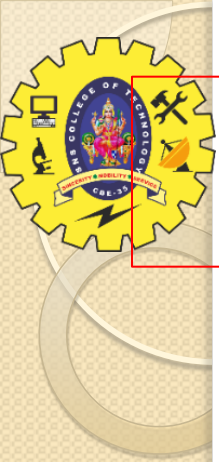
- Lean Six Sigma Principles
 1. **Customer Focus:**
 - Defining what ‘quality’ and ‘satisfaction’ means to the customer and aligning the business processes and people to achieve the customer and business goals should be at the center of any LSS deployment.
 2. **Define Roadblocks to Consistent Quality:**
 - Define your problem well and set priorities in line with the same. Access to qualitative and quantitative data at this stage enables a more rational approach at this stage.



Lean Six Sigma

3. Eliminate Inefficiencies:

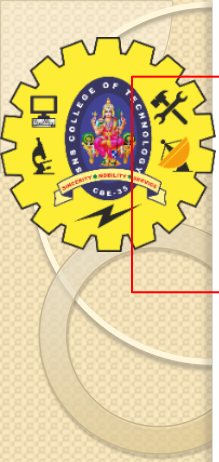
- Define very clearly what is the customer not ready to pay for.
- Demarcate between non-value added and value-added steps in the business process.
- Apply a philosophy of eliminating, simplify, or automate across the organization supported by consistent measurement of the outcomes.
- What gets measured, gets improved.



Lean Six Sigma

4. Communicate and Align People:

- Consistent and seamless communication and training and handholding of people across the organization.
- Encourage people to fall in love with problems and get excited about solving them.
- Inculcate a culture of group problem solving using group-think techniques.
- Ensure behavioral sponsorship to the new way across the organization, especially at leadership and managerial levels.



Lean Six Sigma

5. Be Flexible and Adaptable:

Change is uncomfortable, to begin with, and each person in the organization will move on the Change Curve at a different pace.



Thank You !