

## Basics of Lean Systems

Lean is about eliminating the needed “fat” in the enterprise and from the organization

What is Not Lean?

- Too much unnecessary available resources are stocked
- Cluttered
- Talents that are not being utilized

What is Lean all about?

- It's about eliminating the “fat” and unwanted resources from any system
- A culture, philosophy, mindset, way of life
- A culture that focuses on continuous improvement, open-minded thinking, and challenging the norm
- Removing **NVAs** (Non-Value Adding Activities)
- Much more than manufacturing
- All about waste elimination BY creating value flow in organizations

## Lean Manufacturing

- Employee empowerment
- The systematic elimination of all wastes
- Simplification of value-streams
- Excellent environment, health, and safety
- Value stream to customer satisfaction
- As-is process -> eliminate NVA -> To-be process

**What is value?**

- Adds to the perceived value of product/service
- The customer is willing to pay for
- Eliminate NVA in Quality, Quantity, and People

## Lean Enterprise, Lean Enablers, and Lean Toolbox

- Lean Systems - enablers and measures
- Lean enterprise - an enterprise with people excellence where culture in manufacturing processes and business processes focuses on waste elimination
- Reducing waste through its enablers and measures
- Lean enablers:
  - **5S**: Standard, efficient, and effective workplace for all employees
  - Sort, simplify, shine, standardize, and sustain

- **Visual Management:** To enable everyone to immediately see deviations to apply immediate corrective action
- Visual indicators -> easy to interpret
- **Standard Work:** To reduce process variability, standardizing the process
- Sets the standard, helps to labor flexibility
- **Kaizen:** Continuous improvement for current and future state
- **Leadership Standard Work:** Provides structure and routine
- Coaching and constructive feedback
- Process mapping -> maps the process of all relevant activities, good for a communication tool
  - Helps to identify wastes and obstacles

### Lean Tools



- **Reducing process variability:** statistical process control, failure mode effect analysis (FME-A), Six Sigma, Jidoka
- **Lead time:** big picture mapping, brown paper mapping, value-stream mapping
- **Capacity:** Constand identification, batch sizing, production leveling, finite capacity scheduling, order rules
- Material flow

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