



# How to Improve Process and Increase Profits with Lean Manufacturing

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## Lean Manufacturing

- 1950 – Toyota began implementing the Toyota Production System (TPS) which has shaped many of the Lean principles we use today.
- Companies that adapted early continue to support and expand into other areas
- Became mainstream in mid 90's.
- Negative – “manufacturing” mindset.



## Improving Process

- Identify an area or function that needs efficiency or quality improvement.



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## Lean Obstacles

- Change Management
- Top Management Buy-In
- Organization Integration
- What “value” does Lean have?
- Maintaining the program



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## Lean Drivers

- Pressure to improve performance
- Improve competitive advantage
- Product or process push
- Customer demands
- Return on investment
- Quality



## Lean Focus

- Reduce non-value costs
- Implement continuous improvement mindset
- Focus on customer
- Reduce
- Quality



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## Lean – Method

- Identification
- Implement continuous improvement mindset
- Focus on customer
- Reduce
- Quality



## Lean Methodology

- Improve work environment
- Organize
- Clean-up
- Standardize
- Sustain

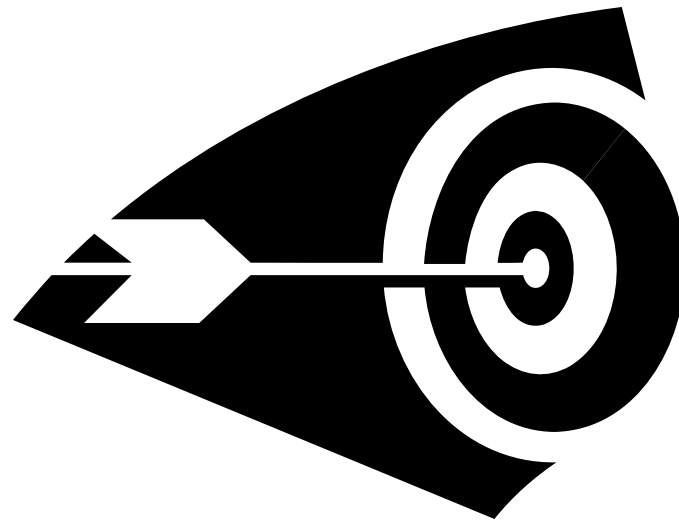


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## Improving Process

- Next steps?



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## Value Stream Mapping (VSM)

- Value Stream Mapping
- Get a snapshot of process
- Identify area's of non-value



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## Cell Production

- In-Line/Off-Line
- Workcell
- People/machine
- Value Add Steps
- Quality Control



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## Kanban

- Pull Scheduling
- Digital Storefront
- Web-to-Print
- Communicate
- Build Quality In Process



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## Kaizen

- Continuous Search
- Target
- Going Green
- On-Time Delivery
- Reduced Inventory



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## Case Study

- Digital Storefront
  - Order Submission
  - More Sales
  - Proofing – *Client Responsible*
  - Drive Unique Products



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# Question and Answer

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