

# • Just in Time - Critical part of a Lean system - Requires • SMED (Single Minute Exchange of Dies) • TPM (Total Productive Maintenance) - Enhanced by • Kan Ban • POUS (Point of Use Storage)

# What is Kan Ban Kan Ban is not an inventory control system Kan Ban is a visual scheduling system that tells you: What When How much

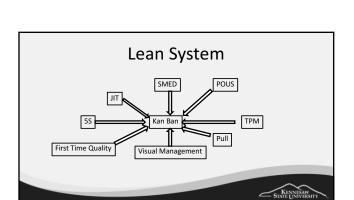
### Kan Ban Benefits

- Eliminate the waste of overproduction
- Increase flexibility
- Simplify procurement
- Integrate processes and tie to the customer

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# Other Lean Benefits

- Reduce cycle time
- Reduce WIP
- Improve Quality
- Free up floor space

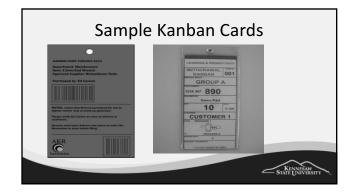


# Parts of the system

- KanBans
- Dedicated Space (POUS)
- Scheduling Board



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## Kan Ban Rules

- Downstream processes withdraw items from upstream processes
- Upstream processes produce only what has been withdrawn
- Only 100% defect free products are sent to the next process
- Establish level production
- KanBans always accompany the parts
- The number of KanBans is reduced over time.



### Kan Ban Rules

- Downstream processes withdraw items from upstream processes
- This describes the pull system
- In practice, sometimes the upstream process delivers the items to POUS.



### Kan Ban Rules

- Upstream processes produce only what has been withdrawn
- This is the control against overproduction.
- You do not produce more than you have kanbans for.
- If you have no kanbans, you do not produce.



### Kan Ban Rules

- Only 100% defect free products are sent to the next process
- Each function is responsible for their own quality
- When there is a quality problem, production stops until it is resolved.



### Kan Ban Rules

- Establish level production
- This is not as hard as it sounds
- If your customer wants 10,000 parts in a month -
  - Produce 2500 each week
  - Or 500 each day
- Work with customers to level their orders



# Kan Ban Rules

- KanBans always accompany the parts
- The KanBan (card or tote) stays with the parts until they are used, then returned upstream to be replenished.

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# Kan Ban Rules

- The number of KanBans is reduced over time.
- A KanBan System must be actively managed.

