



Tonight's ObjectivesLearn to identify the 7 major wastes in any work Gain a High-Level Understanding of Lean Participate in the Star Exercise and learn to complete two tools that you can take back to work and use immediately Questions and answers for how Lean supports every occupation and industry.







Overproduction:

- Memos and E-Mail to everyone (or copying "extra" folks)
- * Printing documents twice "just-in-case"
- Excessive logging of information
 - Keeping a list of callers or orders outside the system
 Doing the work and then tracking what you did or when
- Making a draft before preparing formal document
 - Prepare monthly report early and updating it
 - Shipping documents, closing reports, sales reports
- Making 54 parts instead of the 50 ordered
 - planning for failures and scrap

 because the system (dies/tooling/patterns) don't allow for a different amount

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Inventory Waste Examples

- Buying items just-in-case or to save money
 (bulk purchasing, quantity discounts, person ordering doesn't know you don't use it any more)
- Documents are waiting to be matched or signed
- No storage space because it is filled with other items we don't need

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Waiting ...

- Waiting for printer to warm-up, for some other print job to finish
- Waiting for host, lifts, or forklift, etc.
- Attendees not all on-time for meetings
- Waiting for the person or process before them to finish
- Mail or order delivery late to/within the organization
- Different work schedule of team members
- Signatures, unnecessary or excessive signatures
- Waiting when Printer or computer breaks down
- Waiting when Manufacturing machine breaks down





Transportation Waste...

- Tools aren't where you need them when you need them
- Tools are shared
- Walking back and forth to do the job
- Walking back and forth to get instruction, product or looking for people
- Taking paperwork to the office
- Treasure Hunts
- Searching for the tool that disappeared
 - Walking to a production book to find drawings or instructions
 - Walking back and forth to find information or people
 - Returning to see if he/she is back yet
 - · Walking to see if needed parts have arrived

Commonly Caused by Poor production layout

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Waste of Motion

- Keeping or storing forms out of reach of employee
- Saving files *forever* mixed with current files
- Employee working by experience instead of standard method
- Not removing parts, dies or jigs no longer used or needed, or correct
- Setting up the saw each time because you are sharing it











Waste Analysis Sheet												
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- 200 employees = \$375,000 per year (12 people)
 400 employees = \$750,000 per year (<u>24 people</u>!)

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