

Lean Construction for Trades Toolbox Talk Series

Developed by the AGC Lean Construction Forum



.25 CM-Lean CE Credit | AGC of America recognizes this this series as qualifying for continuing education hours towards the renewal of AGC's Certificate of Management-Lean Construction (CM-Lean).



- Introduce Lean Construction concepts in the field through conversational learning
- Recognize opportunities to review and improve current processes
- O Describe how to empower each other to identify and eliminate waste, work safely, and reduce overproduction
- O Adopt a Lean culture

Lean Construction for Trades Toolbox Talk Session Goals: 8 Wastes in Construction

- Learn what the 8 wastes in construction are.
- Identify ways we can empower each other to minimize waste.
- Determine how to work smarter, not harder.

"8 Wastes in Construction" developed by Joel Lehrer, Ivey Mechanical





What are the 8 Wastes in Construction?

O Transportation

Wasted Time, Resources and Costs from Unnecessary Movement of Material and Equipment

Inventory

Wastes from Excess Materials

Motion

Wasted Time, Resources and Costs from Unnecessary Movement of People



What are the 8 Wastes in Construction?

Waiting

Wastes from Time Spent Waiting for the Next Process to Occur

Over Processing / Over Design

Wastes Related to More Work or Higher Quality Work than is Required

Over Production

Wastes from Making More Product than is Required



What are the 8 Wastes in Construction?

O Defects and Re-work

Wastes from a Product or Service Failing to Meet Customer Expectations

Field Ideas (Under Utilization)

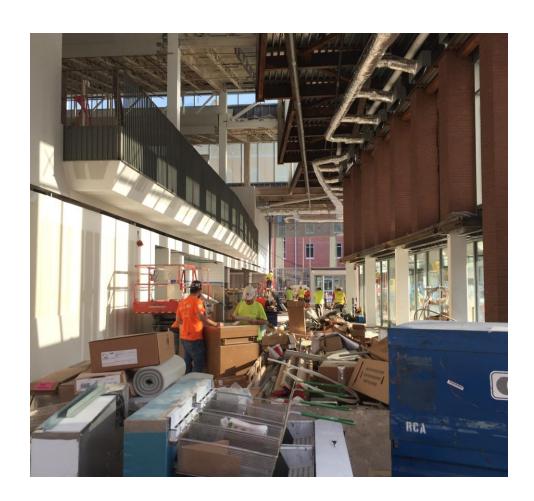
Wastes Due to Underutilizing People's Talents, Skills and Knowledge



Minimizing the 8 Wastes of Construction

- Coupled with a forward thinking team, identifying and minimizing waste can help to improve the process
- Team members are empowered to:
 - 1. Review current processes to look for waste.
 - 2. Revise team processes to minimize waste based on team member input (the best improvement ideas come from the people doing the work)
 - 3. Verify and communicate all new processes with team members before implementation





What wastes do you see on your job?

What can you do to minimize those wastes?





Identify Waste On-site:

- 1. Transportation
- 2. Inventory
- 3. Motion
- 4. Waiting
- 5. Over Processing/ Over Design
- 6. Over Production
- 7. Defects and Re-work
- 8. Field Ideas

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8 Wastes in Construction