



AGC
THE CONSTRUCTION
ASSOCIATION

Lean Construction for Trades Toolbox Talk Series

Developed by the AGC Lean Construction Forum

CM-LEAN
CERTIFICATE OF
MANAGEMENT
LEAN CONSTRUCTION

.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).

Lean Construction for Trades Toolbox Talk Series Goals

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

○ **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?

○ **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