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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

Course Description



The Lean Builder Workshop is specifically designed for the "boots on the ground," – also known as the Last Planners(R). Starting with WHY and ending with HOW, we will provide a holistic understanding of Lean's benefits. Then we'll simplify and clearly articulate the benefits of four primary Lean concepts, and teach them to you in a highly-relatable immediately-applicable, and field-friendly manner. Participants will walk away with an easy-to-follow blueprint and implementation plan to lead their team and dramatically improve their project delivery process through the following principles: #1 – Daily Huddles #2 – Visual Communication \$3 – The Eight Wastes (through the lens of a construction project) #4 – Constraint Management in the face of pressing project deadlines and heavily competing priorities, the addition of unfamiliar Lean Construction processes or tools can feel intimidating, overwhelming, and easy to ignore in favor of what's already known and comfortable. Because we are builders as well as operations-based Lean practitioners, we understand what you're up against. We have created The Lean Builder Workshops with you in mind – to fill in the blanks, provide relevancy, and offer the help you'll need to make Lean implementation easier to understand and accomplish.

Learning Objectives











01.

Participants will understand the meaning of Lean project management and be able to identify its benefits.

02.

Participant will be prepared to implement Lean tools and practices with their project management teams.

03.

Participants will be able to define and discuss four principles of Lean management.

04.

Participants will recognize the correlation between the advantages of Lean for both builders and operations-based Lean practitioners.



This concludes The American Institute of Architects Continuing Education Systems Course

Lean Construction Institute

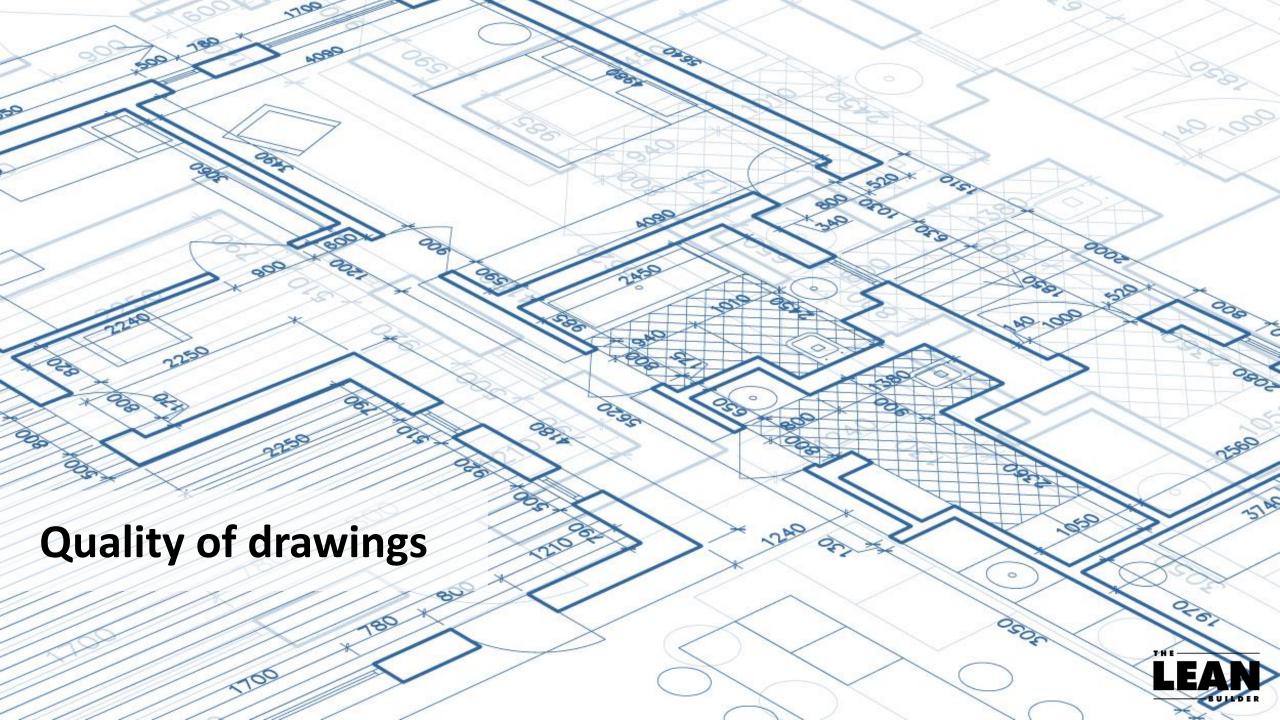


info@leanconstruction.org













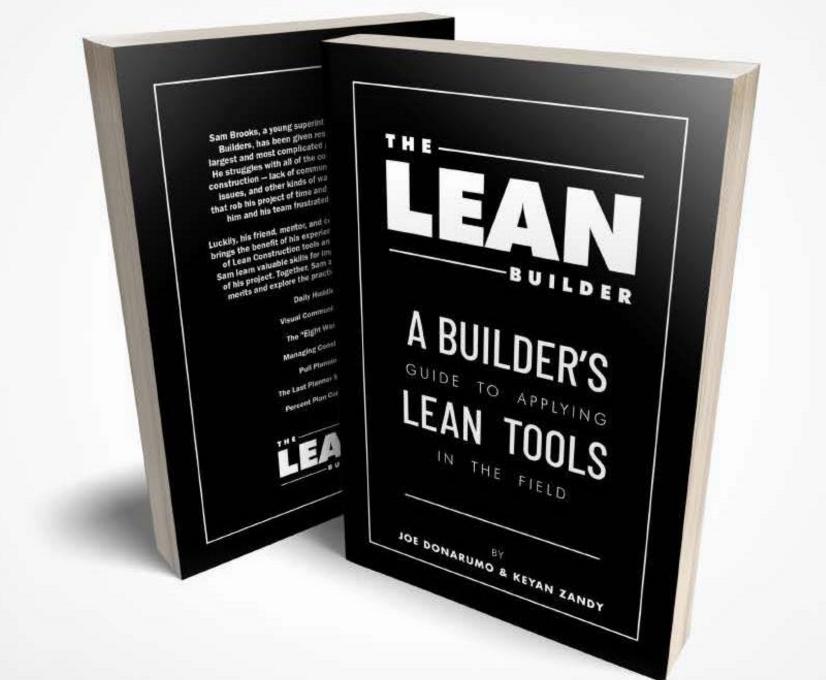


Lean is the way forward



The Way Forward











7 Steps for Effective Huddles







Keep it short.





Start on time.

End on time.





No phones or distractions.





Stand up.





Establish a routine.

Make it stick.







Stay on track:

- E.L.M.O.
- Parking Lot







Involve the entire team.









Daily Huddles

- Greater accountability amongst trade partners
- Beginning step in shifting/improving jobsite culture
- Reduced fire drills for field leaders





Floor Plans/Elevations Under Laminate + Dry Erase Markers:

- 1. What they are working on;
- 2. Where they are working;
- 3. How many crews/workers are on-site;
- 4. Where there are constraints;
- 5. What material deliveries are coming up.







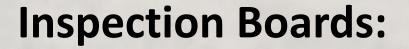


Material Delivery Boards:

- 1. What is being delivered?
- 2. What time is it being delivered?
- 3. What company is delivering it?
- 4. What type of truck is it coming in?
- 5. Where will it be <u>unloaded</u>?
- 6. How will it be unloaded (by hand, by lift, by crane, etc.)?



	9	12	12							
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- 1. What is being inspected?
- 2. Who requested the inspection?
- 3. What date/time was the inspection requested?
- 4. What date/time will the inspection occur?
- 5. What are the <u>results</u> of the inspection?



INSPECTIONS



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Visual Communication

- Improved trade to trade communication
- Greater awareness on project direction
- Facilitates meaningful collaboration







What is the constraint?

Where is it occurring?

Who is responsible for fixing it?

When will it be resolved?

- Share the responsibility
- Review daily
- Removing constraints
- Develop and leverage your soft skills
- Build the project culture



	ONSTRAINT RESOLUTION BOARD
#	Issue/Constraint
1	BOWARDS - WHOT 9/16 EST. VELTRY
2	RETPONTING WAR START 9/16-9/20
3	BOSINGETA HOLICEARCH COMPSTER CATE
4	ELEMANNE V LIST & BELOW 9/17 STATE THISTECTION
5	PORTER CONTROL WERES -> JASON 9/10
6	Z TEAM COMPREMENTAL - PANOY K 9/10
7	DIMESTIC WATER - DUNIAWAY 9/10
8	PERM GHS SERVICE?
9	9/U LAND DUES/GUASS INSTANCED - JOHN/BOED/
10	LINBECK BONDO WERE START 9/16
11	DEAL HOUS PHON SOUNDS/LUT OUT SOUNDS STEVE 9/9
12	SET CABOLETS SCALE PRIME 9/9 - STEVE
13	PART LAM CERTUL 9/10 START - WALDO
14	FEP 1004T 9/9 - OSCAR/APP @ C1035T
15	BOOFING STATET 9/10- CHUCK



Managing Constraints

- Deepened accountability amongst team members
- Greater awareness of root causes
- Improved resolution speed





What is the Last Planner System TM?



The Last Planner System™

- 1. Master Scheduling
- 2. Phase Scheduling
- 3. Look-Ahead Planning
- 4. Weekly Work Planning
 - Three-Week Look-Ahead
 - Activities/Work to Be Done
 - Manpower Tracking
 - Constraints/Needs
- 5. Percent Plan Complete



Why use the Last Planner System™?

Remove silos

Push -vs- Pull

Make reliable commitments

Improve project direction and flow

Create trust and accountability

Identify and address root causes for incomplete work



Where do teams go wrong?

Not starting with culture

Focusing on tools – not on people

Lack of training

Only using pull planning





- 3. Look-Ahead Planning
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ACTIVITY

The thing that needs to be done

4	MINUTES	HANDOFF
	How long this activity will take to complete	The thing that needs to be completed for this ACTIVITY to happen





AIR TICKET

NAME OF PASSENGER JAMES DOE

FLIGHT LJLON23

FROM: DALLAS FT WORTH / DFW HONOLULU, OAHU / HNL

DATE GATE SEAT 21B 16. JUL 20 23

GATE CLOSES 30 MINUTES BEFORE DEPARTURE

BOARDING TIME 10:00

ETKT 454843121451100

BOARDING PASS

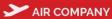
ECONOMY BOARDING PASS

NAME OF PASSENGER JAMES DOE

FROM: DALLAS FTW / DFW HONOLULU / HNL

FLIGHT DATE 16. JUL 20 LJLON23

GATE SEAT 21B 23











AIR COMPANY

135















So, now you know you need to leave at 8:20, but there's one problem....



























Before the Pull Plan session:

- Decide on the milestone to pull
- Decide on a facilitator
- Select who should attend
- Pre-Pull
- Set up the meeting room

During the Pull Plan session:

- Introductions & ground rules
- Fill out cards
- Post cards and pull back
- Recap

After the Pull Plan session:

- Document the pull plan
- Update master schedule
- Create the look-ahead

MECHANICA

MECHANICAL



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SCHEDULE - 6 WEEK SNAPSHOT MRMC Vertical Expansion

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- 1. Master Scheduling
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 - Three-Week Look-Ahead
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1	SKILES G R O U P
	SKILES GROUP

THREE WEEK LEAN DASHBOARD:

PROJECT MILE	STONE TRACKING	
DATE	MILESTONE	DATE
2-11		
DATE	MILESTONE	DATE
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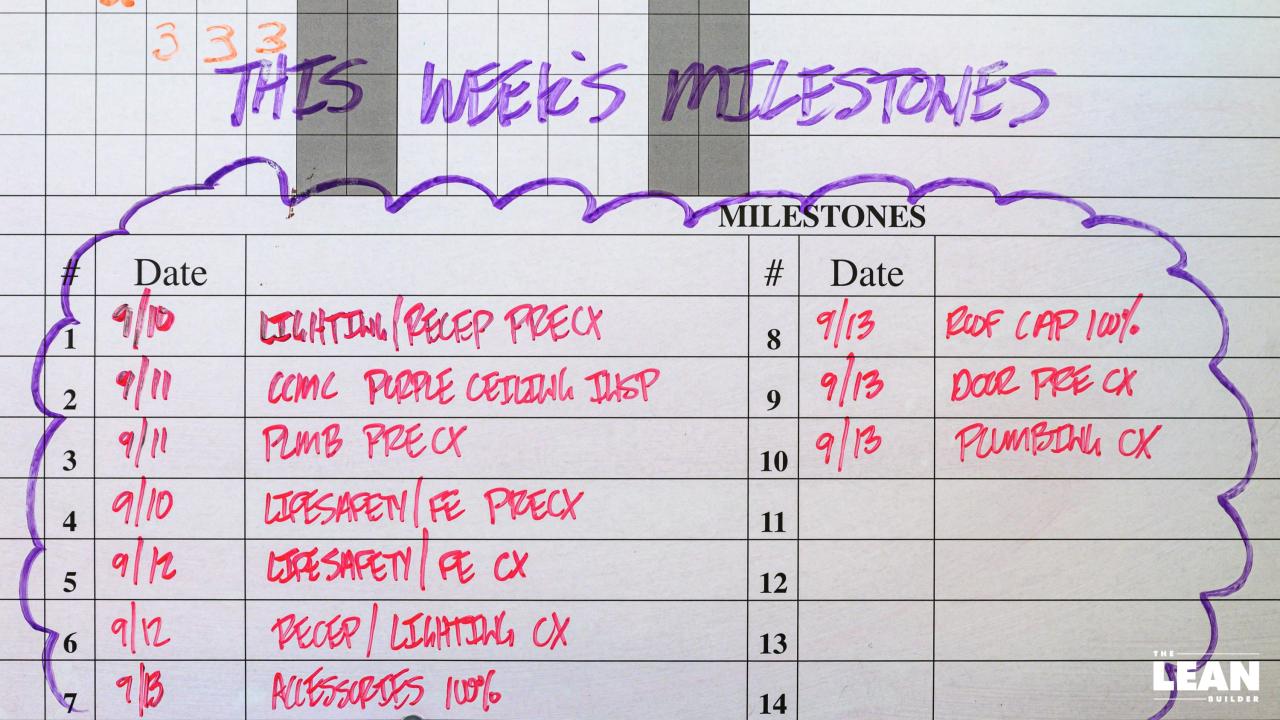
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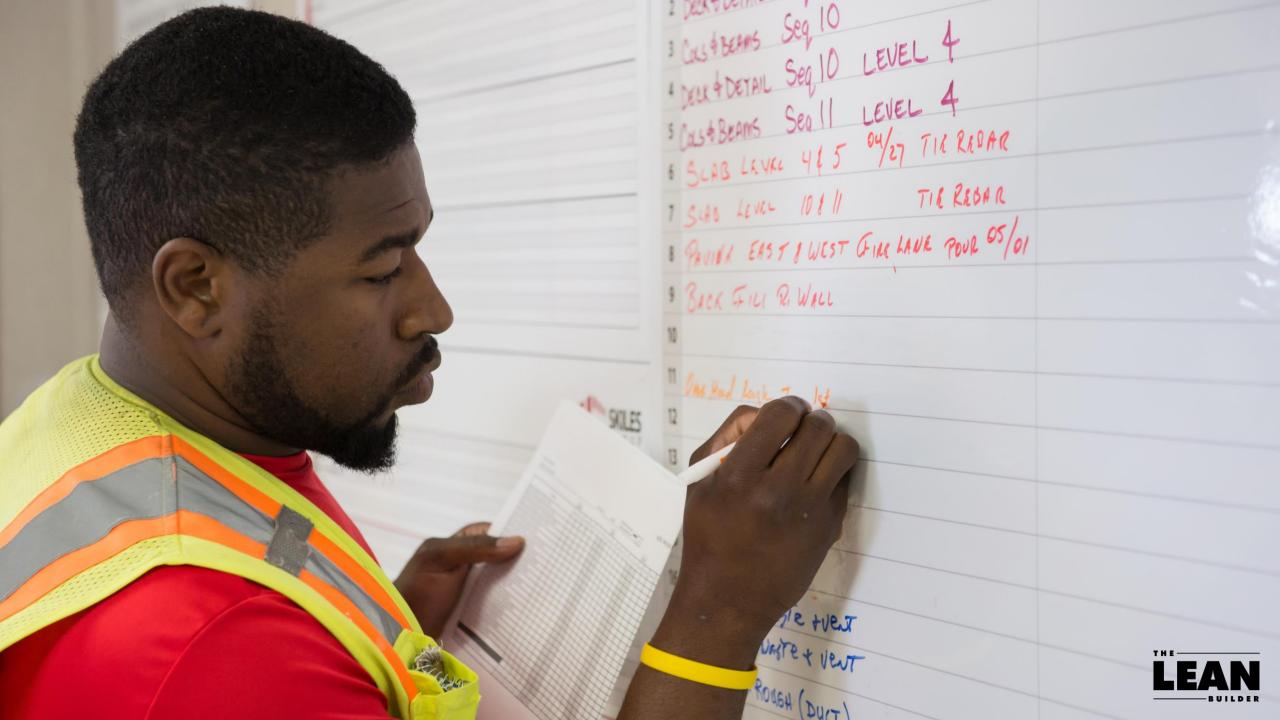






LINBECK					2 WEEK L	OOK-AHEAD BOARD
PROJECT NAME: PROJECT #:	2-1					
PPC Root Causes: 1. Inclement Weather 2. Inadequate Manpower 3. Lack of/Failure of Machinery 4. Design (RFI, Submittals, Etc.) 5. Make Ready 6. Materials # TASKS		PPC Root Cause	9 10 11	12 13 14	nt Sun Mon Tue Wed Thur Fri Sa	CONSTRAINTS
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5. Percent Plan Complete

- Activities Completed
- Activities Promised
- Weekly Team Percentage
- Root Cause Categories
- Root Causes for Work Missed
- 12-Week Snapshot

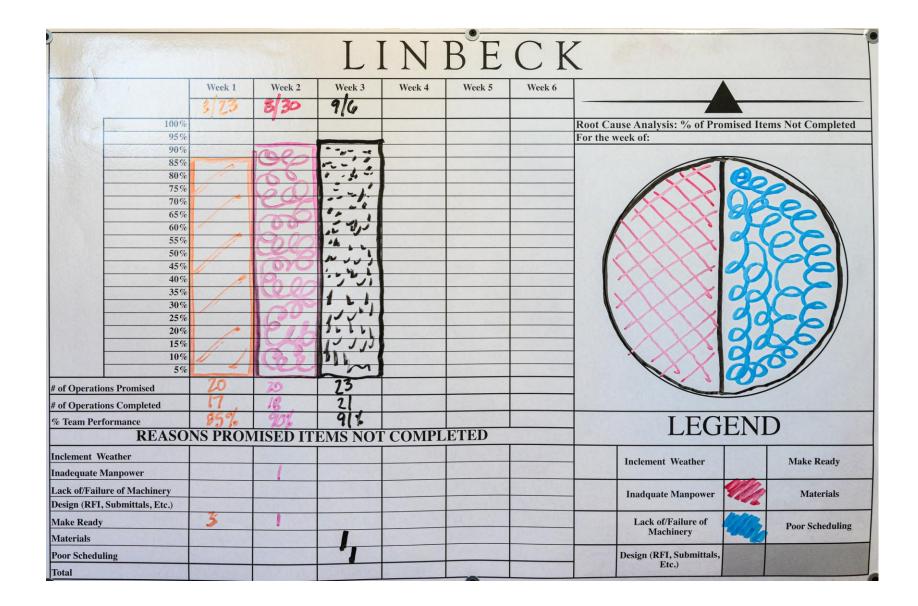


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4	Duct ALLAB corridor	y voi voi voi	SAFETY QUALITY INSPECTIONS				:	-			5 5	5	5	5		5 5	5	5	5
5	Insulate AHU#8 obshouse		SAFETY QUALITY INSPECTIONS				4	14											
6	Chill Water Risers - 5th Area ?	TEMP INOTEGIA	SAFETY QUALITY INSPECTIONS	Open ARIAC Chase		3	33	3											
7	Heating Water Riser- 5th Area A		SAFETY QUALITY INSPECTIONS	Open AREA A Roof						4	44	14							
e 8			SAFETY QUALITY INSPECTIONS			3	3 3	3											
9	I risulate AHU #9		SAFETY QUALITY INSPECTIONS						3		3 3	3	3	3					
10			SAFETY QUALITY INSPECTIONS																
11	"AHU- 8 Steam piping Testing		SAFETY QUALITY INSPECTIONS			3	3 3	3											
	HEATING WATER AREA A OVER HEAD 4"ONLY X		SAFETY QUALITY INSPECTIONS	MATERIAL			4	+ 4	4		4								
	HEATING WATER RAISERS FROM 6 TO 5		SAFETY QUALITY INSPECTIONS					4	4										
14	Sanitary wast vent Area A		SAFETY QUALITY INSPECTIONS			6	65	6	6		4 4								
15	Domestic water Area B worth oventer	4	SAFETY QUALITY INSPECTIONS				4		4		44	14	4	4	. 5				
16	Domestic water IN-WAIL Arae C		SAFETY QUALITY INSPECTIONS	WALL FRAMTING												5 5	5	51	5
17			SAFETY QUALITY INSPECTIONS			M	(M)												
18	WITE PAIL MCC TO AHLI'S		SAFETY QUALITY INSPECTIONS	MCC - SHP 115		0	9						4	4		44	4		
19			SAFETY QUALITY INSPECTIONS	M CC						(44	14							
20			SAFETY QUALITY INSPECTIONS			4													
21	TS .		SAFETY QUALITY INSPECTIONS	Dayin / MCC												33	3	3 3	3
22			SAFETY QUALITY INSPECTIONS		. 7	2	46	14								THE	ı —		
23			SAFETY QUALITY INSPECTIONS						cl	1	2 2	-7					E		
24	A		SAFETY QUALITY INSPECTIONS	Pipetesting									2	2	1	2 2		— B U	ILDEI
25			SAFETY QUALITY INSPECTIONS	Topcul												22	2	2	2







Last Planner System™

- A trade-validated schedule (Pull not Push)
- Improved constraint identification/resolution of critical activities in look-ahead schedules
- Clear team understanding of weekly milestones and learning around failures (PPC)



