

Lean Construction Institute

Immersive Education Program

21 Common Mistakes when Deploying Lean and Last Planner System® on Projects ...and how to fix them!

Via 90 Minute Webinar, June 24, 2021, 11am EST

Presenters



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Webinar Agenda

21 Common Mistakes

when Deploying Lean and Last Planner System® on Projects ...and how to fix them! High-level Lean/LPS[®] issues
Milestones

• Pull Planning

- Make-Ready Planning
- Weekly Work Planning
- Learning from variances
- Q & A Please Enter Questions
 & Comments in Chat!







Keep in mind Lean is also about:
Continuous Improvement
Respect for People

Ask "What do you think?"





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Mistake # 2 Thinking Lean is only for front line workers



Leadership must be ENGAGED • Participate as much as possible • Change the way you speak to teams: • Start by asking about: • Percent Plan Complete (PPC) trends Countermeasures for variances • Lessons Learned









 Understand Lean is **not** about throwing-out everything we know about construction

Know that every process can be improved

 Conduct Regular Trainings to get (and keep) everyone on the same page









• Know that common terms have different meanings to different people

 Take the time to clearly state what work is included and what is not included

 Pay special attention to major milestones which release work to others





Mistake # 5 Durations between Pull Plan Milestones are too large (>3 months)

Don't solely focus on contract milestones
Create and post (make visible) intermediate milestones - Monthly and Weekly

Practice pull planning smaller phases of work



The

Fix



Mistake # 6 "Biting off more than you can chew" in the Pull Plan

The Fix

- Keep the pull plan focused on 1 phase of work
 Concurrent phases should not be pulled together
- Only invite related parties
- Guidelines: 10-12 wks for new construction,
 6-8 wks for renovations, up to 26 wks for design





Mistake # 7 Conducting pull plans just prior to starting work



Conduct Pull plans ~6 weeks prior to the start of a phase

Allows for changing the plan if a better idea surfaces





Mistake # 8 Insufficient preparation for the pull plan



Proper notice (2+ weeks) & reminders
Location: on-site vs off-site vs virtual
Room set-up: checklist available

• Name Tags are a must!

Onboarding new members (in advance)





Mistake # 9 Short-cuts: using the contract schedule, filling out sticky notes in advance

The Fix • Set aside contract schedule & start with blank sheet of paper – forces thinking • Allow 3 to 4 hours for pulling major phases • If in-person, spend the 1st ~60 minutes of a pull session laying the groundwork, or... Conduct preparatory sessions in advance of the pull session – typically 2 hours





Mistake # 10 Insufficient groundwork at the start of the pull planning session



- Introductions, Overview and Session Goals
 Milestone definition, work breakdown, takt areas, flow of work
- Work Sequence (beginning to end, aka forward)
- Have trades describe the way **they** intend to accomplish their work
- Capture constraints and seek innovation





Mistake # 11 Choosing the wrong format for the pull plan

The Fix

Decide between:

• Swim Lanes for trades – not recommended

• Swim Lanes for different areas - OK

• Blank paper, virtual/cloud software

• Time Scale – to include or not to include?





12 Posting sticky notes randomly

Start with the end in mind (milestone completion)

- Follow the request (or trigger) of the downstream activity
- Rule: No one posts any activities until requested by another trade



The

Fix



#13 Poor or non-existent follow-up after a pull planning session



• Capture the plan in scheduling software & distribute for review & comment

Capture constraints, questions, issues, needs & assign a champion and date needed

Confirm durations and handoffs with any performers not in attendance





Mistake # 14 Thinking we are done after the pull plan



Start the daily & weekly cadence right away

- Weekly Work Planning
- Make-Ready Planning
- Daily Huddles

Connect all future planning discussions back to the pull plan (aka, the production plan)
Pull Planning is just the starting point!







 Test: Are constraints being identified 6 weeks in advance?

 Each week, paint the picture of where the project should be in 6 weeks

 Use Plus/Delta to remind performers to bring make-ready constraints to the meeting



The

Fix



Mistake # 16 Last Planners not listing workable backlog on their WWPs

The Fix Ask the individuals that didn't list any Workable Backlog, "Where will you go next week if you get ahead or get stopped?"
Encourage production leaders to think beyond the current week





Mistake # 17 Production Leads not reviewing the WWP prior to the Meeting



Have Last Planners submit WWPs in advance
Review the WWPs prior to the weekly meeting

 Note any questions or non-compliance with the pull plan and discuss at the meeting







Mistake Focusing solely on the PPC Score

The Fix • Discuss the major variances from the prior week at the weekly meeting

• Ask the trades what countermeasures were installed to prevent re-occurrence

Ask 5-Whys? to get to the root cause
Do not accept 1-Who?





Mistake # 19 Being "soft" or giving partial credit when calculating PPC

The Fix • Activities must be **Specific & Measurable** • Done on the day promised – Yes or No? • "Nos" are not always a bad thing • Being "tough" in scoring helps sharpen planning skills, which leads to better reliability & less variation in the future





20 Meetings (weekly or daily) start late or run long



 Make a point to always start & end on time • Utilize a written Parking Lot to prevent side conversations or problem-solving from dragging out the meetings (2 Minute Rule) Encourage the team to hold themselves accountable





Mistake Failing to conduct regular onboarding # 21 & maintenance trainings



• Have a plan for onboarding when new members join the team

• Have new members join the meeting cycle approx. **2 weeks prior to starting work**

Assign responsibility for onboarding

Conduct Intermediate phase trainings









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