



Five Reasons Your Team Should Adopt Stand-Up Meetings

No one likes sitting in a directionless, hour-long meeting while silently waiting for it to end. Meetings like these drain motivation and productivity, while wasting a company's most precious resource: its employees' time. Enter the stand-up meeting. While not meant to be a replacement for traditional sit-down meetings, stand-up meetings provide a fresh way for teams to check in with one another without breaking the time bank.

Why should your team think about implementing stand-up meetings? Here are the top five reasons your team should adopt this format:

1. Time
Regular stand-up meetings should last no longer than 15 minutes. In order to accomplish this, members of the team are asked to remain standing throughout the duration of the meeting. Because no one is sitting and getting comfortable, the discussion is brief.

2. Team Alignment
It's important that major contributors on the team are present during the meeting. Having the entire team present allows all pivotal members to communicate the status of their projects and establish goals for the day ahead.

3. Motivation
The nature of a stand-up meeting is quick, high energy, and supportive. If a stand-up meeting is facilitated well, team members should leave feeling motivated to start their day.

4. Team Camaraderie
During a stand-up meeting, team members will discuss what they accomplished yesterday, what they plan to accomplish today, and any roadblocks in the way. By providing regular opportunities for team communication, stand-up meetings encourage team members to offer help and support, especially when two or more people share the roadblocks raised.

5. Increased Productivity
By creating a space to check-in regularly, stand-up meetings decrease the need for emails or walk-in interruptions. Additionally, problems are often raised early, and dealt with more effectively, when brought to the team as they occur. These subtle changes in team dynamics often lead to increases in productivity.



LEAN Times

Monthly Update of JEG Lean Information

LCi Conference 2019 NCH team new innovations and learning from others



Lean Dept. Simon Watson Hosts an LCi Stream

During LCi's one day symposium in Croke Park recently, Jones Engineering sponsored one of the streams called "Collaboration: A Team Effort." This concentrated on Lean Construction in private projects and discussed the challenges that prevailed. Our own Simon Watson hosted the stream the with following speakers:

- Tom Brinded (Partner) McKinsey & Company
- Martin Searson (Group Quality Manager) Kirby Group
- Andrew Norris (CI Manager) Suir Engineering

The speakers discussed their case studies relating to the subject matter of the stream where Simon controlled the session encouraging the audience to participate and relating their questions to the panel.

It was a very informative and successful event and Jones Engineering were proud to be sponsors and participants in what is turning out to be a highlight in the Construction Industry calendar.



Lean Pass Training Course Development Team

On October 3rd the LCi hosted it's second annual one day Symposium in Croke Park. As reported in LEAN Times 79 this included several streams, keynote speakers and plenary sessions all based on the theme of "Lean Innovation- Inspiring our Future in Construction."

One of the highlights of the day was the launch of the Lean Pass training course. This is a new course with the aim to provide participants with an introduction to the fundamentals of Lean and Lean in Construction, and to enable construction personnel speak the same Lean language onsite and in the office.

At the end of the 3 hour course, targeting everyone in the Construction Sector, participants will be able to:

1. Identify the benefits of Lean in Construction
2. Define the difference between Value and Waste
3. Identify and reduce the 8 Types of Waste
4. Give personal examples of Productive Work and Waste

5. Give personal examples and suggestions of how to improve their own working environment using the 5S methodology.

www.leanconstructionireland.ie

Jones Engineering Lean Department has been delivering an LCi commended training course similar to the new Lean Pass course for the last four years. As our class meets all the criteria of the Lean Pass course anyone who has attended the Jones Engineering course will not have to complete the Lean Pass course and will be certified as having completed the training.

Ray Curley and Simon Watson from the Lean Department were part of the team along with industry experts chosen by LCi to develop the Lean Pass course and resulted with Ray and Simon becoming the first internal sector organisational trainers to be approved.

Anyone who would like to complete Lean Pass training can do so by contacting Lean@joneseng.com



GOT A STORY TO TELL?WELL, WHAT'S THE STORY BUD?

If anyone has information or news they want to share regarding innovations or Lean Principles on their site, or maybe you have an article or story you want to share. Please feel free to contact the LEAN Development Group at the email address below and we will be delighted to help.



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NEW Innovations on Children's Hospital

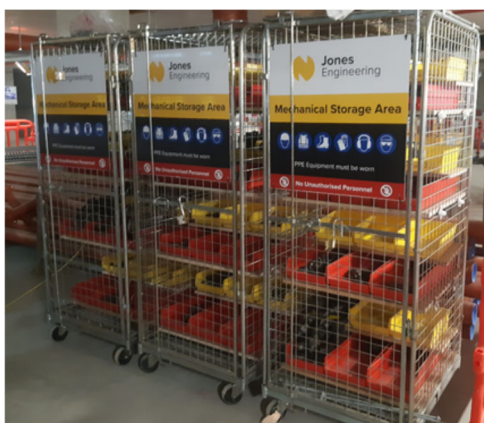
Last month we told you how our JEG team on the New Children's Hospital project in St. James' campus, Dublin are using the Trimble system to great effect for setting out all the fixing points on the ceiling slabs throughout the building. There are time savings and efficiencies being proven by carrying out our business in this manner and the learnings are being taken on board across the company. The JEG surveying team preparing to embark on Project Bluejay in Leixlip are now planning to use similar processes for the setting out works on that job.

Sharing information improves efficiencies

The Project Team on the NCH project are doing a lot of good work on the ground. On a recent site visit Construction Manager Paddy Smith walked us through the building and pointed out some of the processes being implemented. Due to the scale of this project and the similarities between certain areas, if we can improve and refine fabrication and installation processes as we move through the project, we will improve all the time.

1 Local storage

We have shown before how storing items that are used regularly on sites, close to the place of work can dramatically reduce walking



time by the crew. The NCH team are using standard cages that are readily available from suppliers and adding shelving and bin bins to store pipe clips, unistrut components, pipe fittings for assembly of valve sets etc.

- ☑ Designated crew check and re-stock cages at the same time as canteen visits each day
- ☑ Minimises all crew walking to stores
- ☑ Crew spend less time walking and more time being productive
- ☑ Once crew realise cage is being restocked daily, they stop taking "a whole box" of this or a "whole packet" of that and start taking only what they need to complete the task
- ☑ Less waste
- ☑ Material not hoarded in site boxes for those "Just in case" situations
- ☑ Cages on wheels and lockable, so easily moved close to work areas and can be locked
- ☑ Standard layout within each cage so crew know where to find items



JEG local storage cages c/w signage

2 Pre-cut Unistrut delivered

As with most large projects these days, BIM is being used for design of the building and services within. The level of detail provided from the BIM model allows the team to select the supports within a particular area and produce a cut schedule which is sent to the Unistrut supplier. The supplier then cuts each section of channel and t-rod to length and marks it. All channels have end caps fitted and are packaged onto a pallet and delivered to the correct area for installation.

- ☑ More efficient for supplier to cut channel and rod off-site in his premises

- ☑ Less waste on site
- ☑ Minimises double handling as all channel for one area can be delivered straight to that area

Where channel does need to be cut on site, the team are using purpose made cut stations which enhance both safety and housekeeping.



JEG mobile cut station

- ☑ Acoustic lining to reduce noise
- ☑ Clear plastic strip curtain contains any stray swarf and protects passers by
- ☑ Cut station on wheels for ease of movement on site and locating close to work area to prevent excessive walking

3 Sikla support system

This system has been used recently on the Grifols project in Grangecastle and was featured in LEAN Times 75 in May of this year. On the NCH project it is being used for main utility piperacks. The picture below shows an installed rack at basement level carrying Steam and other services. As with all Steam systems, stress analysis calculations have to be carried out to determine where anchor points and guides need to be positioned. Anchor locations specifically have to be designed into the support structure and diagonal

bracing elements can be seen in the photo below to provide a rigid fixing point for an anchor shoe.



Diagonal bracing at anchor point for Steam

- ☑ Support calcs and BIM design provided by Sikla
- ☑ Components provided pre-cut, end caps fitted and labelled when delivered to site

4 Prefab. of common items

Anywhere assemblies can be standardised on this project, our BIM team are following this principle. By standardising components and assemblies, we reduce the risk of error and increase efficiency for the fabrication teams. The picture below shows multiple identical valve stations being fabricated.



Threaded components being assembled

We do need to be careful to keep our "batch" size to a manageable level when doing this kind of work.

- ☑ If the batch is too large and cannot be completed by end of the shift/end of

the week etc. there is a danger that parts may go missing, or may have to be moved to allow access, therefore costing us some of our efficiency.

5 Offsite prefab using jigs

Prefabbing of assemblies off site is a better solution where possible and the team have set up jigs to the correct dimensions of the connections on the Air Handling Units, allowing them to fabricate all the control valve sets offsite in a workshop environment.



Prefabbed valve set delivered to site c/w Unistrut supports

- ☑ Reduces manpower on site
- ☑ Reduces material storage on site
- ☑ Completed assemblies delivered to site as required (Just in time delivery)
- ☑ Support frames already part of each assembly and ready for fixing



Valve sets installed on site connected to Air handling units

6 First of a kind or Trial run

Piperack modules will form a significant part of the overall project in NCH. A lot of effort has gone into the detail of the modules to standardise their design, so similar attention needs to be paid to the installation method.



Mock up piperack modules in basement

First of a kind modules have been built, moved in, erected and joined together to gather data on all of these activities and look for improvements where possible.

7 Weld labels applied to mechanical joints

For many years our welders have marked each weld with an identifying mark for traceability.



The NCH team are using Victaulic joints instead of welds on many systems and decided to maintain the same level of traceability. An ID label that has space for two signatures is placed at each joint. First signature is for the person who formed the groove and second signature is for the person who fitted and tightened the clamp.

