



Manufacturers Alliance

Sharing Education & Resources Peer to Peer

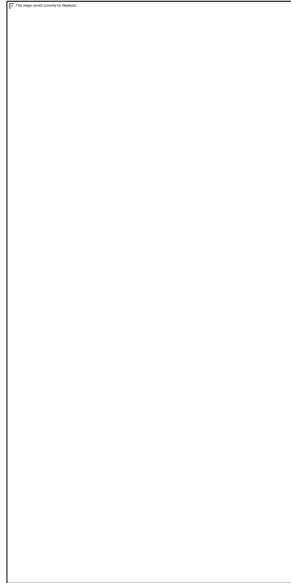
EDUCATIONAL SEMINAR

Learning to Recognize and Remove Waste

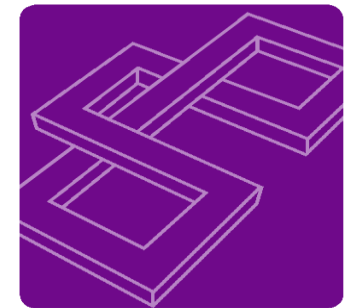
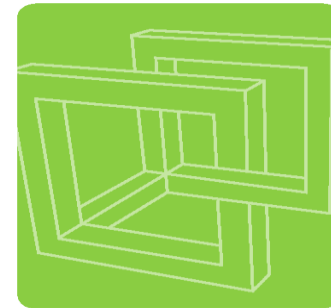
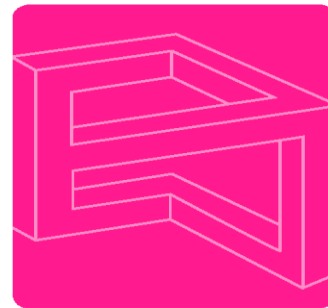
Manufacturers Alliance Seminar
Hennepin Technical College

Bill Kaelin - July 11, 2019

Bill Kaelin - Director of Lean



The Power to be the Best



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GE imagination at work



It's a Numbers Game

- One Essential Requirement
- Two Short Reads
- Three Stories
- Engage all Five Senses
- Multiple Cycles of Learning

Go see the waste
together, respecting the
team's learning style

Two Short Reads

IndustryWeek® JUL 05, 2019

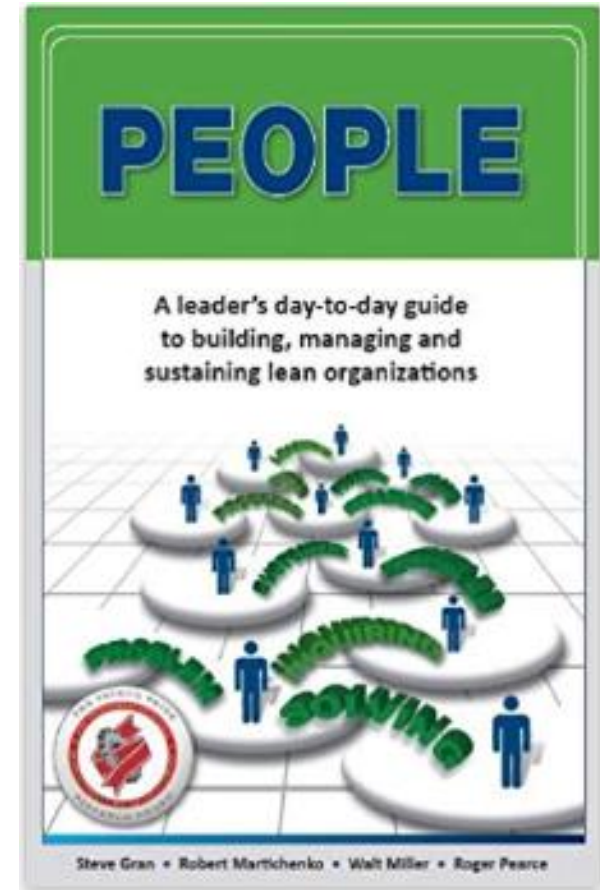
GE Appliances Uses Hands-On Approach to Boost Leadership Lean IQ



Kevin Nolan, CEO, GE Appliances

Copy and paste this URL into your browser:

<https://www.industryweek.com/leadership/ge-appliances-uses-hands-approac...>



Story #1: A picture *IS* worth 1,000 words

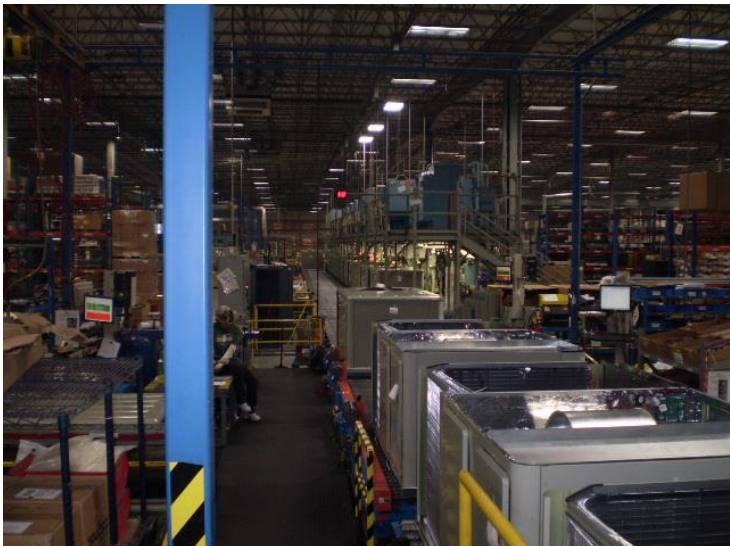
- 28 straight weeks of weekend OT from a sustained 25% increase in demand
- One year of Six Sigma provided no capacity lift
- Great team, frustrated and ready to vote in representation
- Called in Lean expertise to help us -



<https://www.driveinc.com/>



9:00 am



3:00 pm



Story #2: 1963 was a good year to build BIG ovens

- 100 yard long gas fired over producing 238,000 units per hour
- Three shifts 7 days per week and 51 weeks per year
- No stability with >30% rework and scrap
- Plant Manager, "Who has the worst set-up?"



#3: “Bill, my mind does not work that way”



[YouTube Link](#)

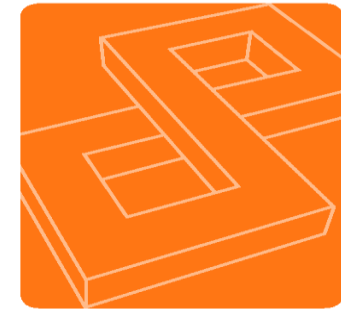
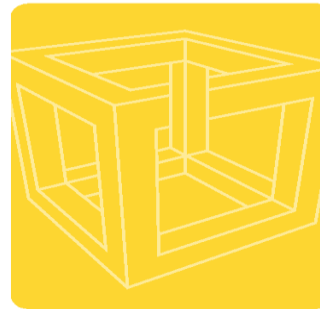
Summing Up the Numbers Game

- Go see the waste together, respecting the team's learning style
- Be creative and flexible, find a formula that works for the situation
- Engaging all five sense will make it real and speed the learning
- Practice, practice, practice through multiple cycles of improvement work

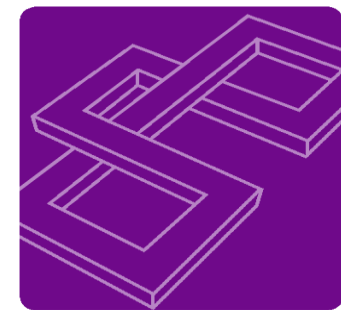
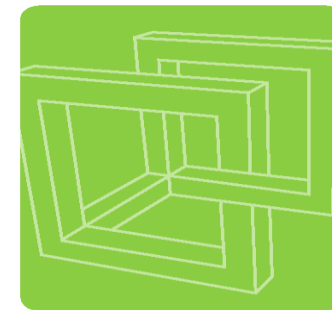


Thank You

SLEEP WELL,
DREAM BIG



The Power to be the Best



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Thank you for joining us!