



GO VISUAL! GO LEAN!

Md Hasan
World Class Manufacturing Champion
Magna International, Inc.









Who am I?

Md is a young, vibrant and energetic person having d ivation to be a global player for manufacturing industries. Coming fram OMG!Iam s in a beautiful town called Petoskey in Northern Michigan. He is a from Grand Valley lost! State University. Md loves to read books, play table control aveiling and film-making. He has a great passion for operational excellence, or nizational culture change and sustainable leadership by integrating design, technology, business and humanity. His vision erving community for a better future. His for excellence always include the rovement, Lean Manufacturing, Six Sigma and primary areas of expertise are Cor Project Management.

Md is currently working as World (acturing Champion at Magna International, Inc. at Boyne City, MI. Before this present role, he had work experiences with A.L.P. Lighting Components, Fiat Chrysler Automobiles (FCA), Denso Manufacturing Michigan.







How About Some Visuals!



Bangladesh



Petoskey, MI



MS in ME | Grand Valley State University
BS in ME | Bangladesh University of Engineering & Tech



Operational Excellence
Organizational Culture Change
Sustainable Leadership



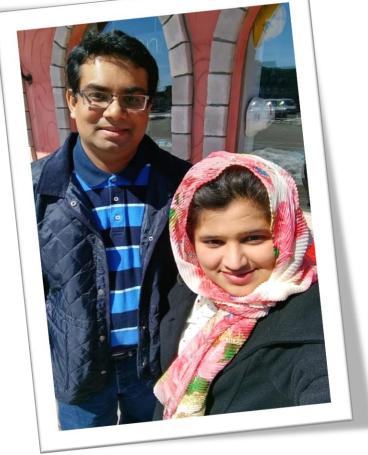
WCM Champion | Magna International, Inc.



Continuous Improvement Lean Manufacturing & Six Sigma Project Management



Reading Books
Play Table Tennis
Travelling
Filmmaking



Me with my wife Faria ©







Agenda



- Group Intro
- What is Visual Management?
- Why Visuals?
- Power of Visuals in Lean
- Q&A, Discussions
- Session Plus (+) & Delta (△)







Let's Say Hello!



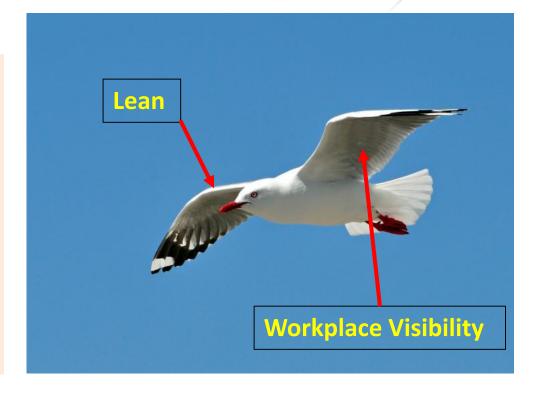






What is Visual Management?

- It is the art of creating visuals to demonstrate facts, identify problems and direct possible countermeasures.
- It is the core language of a Lean Enterprise
- It applies both in traditional and lean work settings



Lean-Visuality Relationship: Wings of a Bird [Concept derived from "Visual Workplace: Visual Thinking", Gwendolyn D. Galsworth]







WHY Visuals?



- Each group member reveals his/her "Why(s)"
- Develop "Why Board"



Power of Visuals





Visuals Improve Safety







PPE Notice at Shop Floor

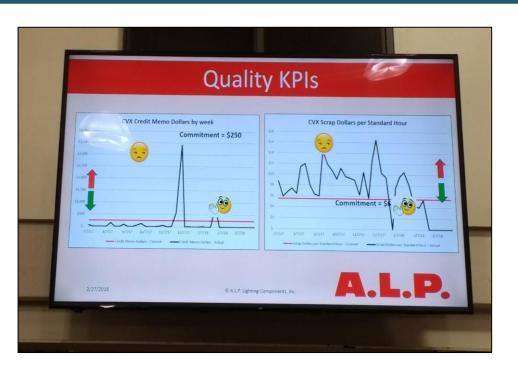
- 30% reduction of Safety Incidents
- Team AwarenessImproves 70%

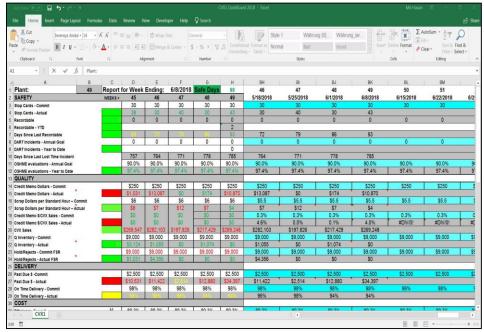






Visuals are Performance Indicators





25%
 Improvement in Team
 Engagement for Problem Solving



Factory KPI Status on Shop Floor

Use of Visual Indicators in Business
Dashboard







Visuals Communicate Information



VACAA

Ice Cream Cones: Visual Presentation

Visuals used in Public Rest Room!



Visuals Communicate Information











- 35% Reduction of relevant Safety Incidents
- 65% Reduction of Safety Hazards
- 50% Reduction of Documentation Time (Safety Checks)
- 60% Improvement in Quality Awareness (Reworks, Containment etc.)
- Help Sustain 5S Initiatives

Pre-Shift Safety, 5S and Quality Board





CHICAGO INTERNATIONAL CONFERENCE 2019



Visuals Create Flow



Visual Control of Traffic at Ski Resort!



Airport Mass Flow by Visuals







Visuals Find Abnormality, Quick!





- **45%** Reduction of Missing Tools
- 60% Improvement in Response Time
- Help Sustain 5S Initiatives

Visual Control at Tool Box 5S

Visual ANDON Lights at Production Floor









Visuals can be Poka-Yoke!







- **50%** Reduction of Safety Incidents
- Help Sustain 5S Initiatives



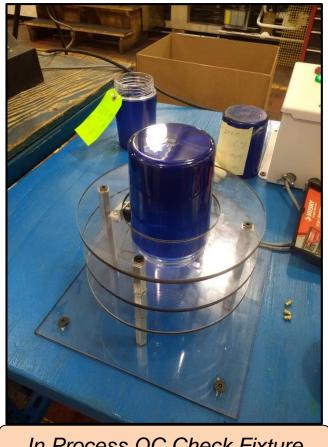
Trash Bin Visual Poka-Yoke

Warning Signs for Safety Hazards

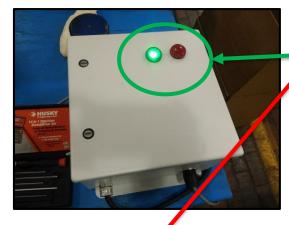


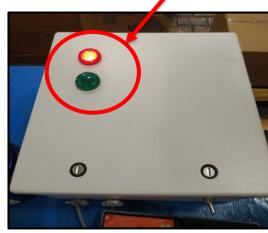


Visuals can be Poka-Yoke!



In Process QC Check Fixture





Visuals to Define **Product Quality**

- 95% Reduction of Non-Conformances
- **60%** Reduction of **Quality Inspection** Time

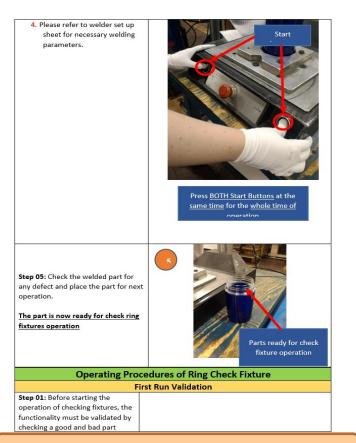


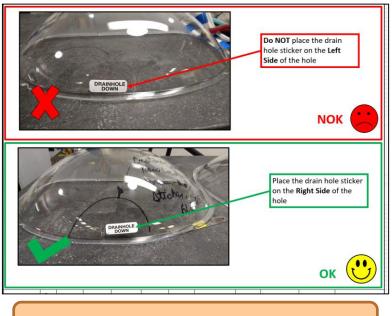






Visuals Facilitate Standards!





Single Point Lesson

- Improves Job Clarity
- 75% Reduction of Process Variation
- Training Effectiveness
- Improves Quality and Throughputs



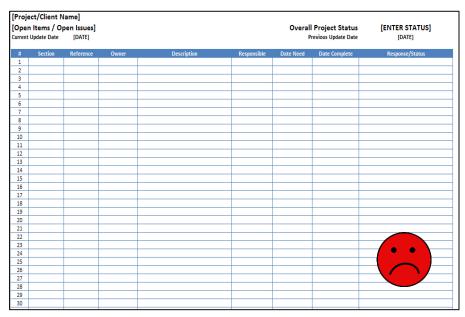
Visual Standard Work Instructions!







Visuals Engage Team Communication!





- Improves Team Engagement & Accountability
- 35%
 Improvement on Weekly Tasks
 Completion

Typical Project Logs for Team Collaboration (Before)

Team Communication with Visuals (After)









Visuals Help Decision Making!



Visual Dashboard for Business Review



Production Status Board with Visual to Take Prompt Action

- Improves Team
 Engagement and
 Problem Solving
 Culture
- 50% Improvement on waiting time for cell manpower allocation







Visual Enables Culture Change!



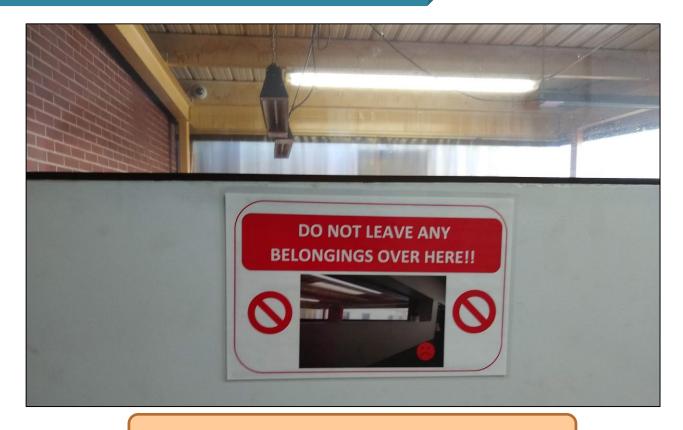
Visual to Promote Gemba Culture!







Visual Encourages Behavior Change!



Visuals for Behavior Change!







Leading on the Edge



- There is NO Box of Thinking!
- Lean Leadership is all about understanding People Physics
- 95 % of the time, Process Owners driven ideas get true momentum and sustain
- Organizational culture change needs true commitment from leaders at all levels
- Leaders should ask "Why" and communicate the "Why" to the team





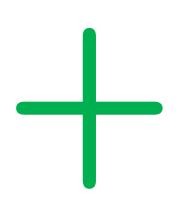
Team Discussions, Q&A







Session Pluses & Deltas









Thank You!

Your opinion is important to us!

Please take a moment to complete the survey using the conference mobile app.

Session No: WS/19

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