

Why Pursue Continuous Improvement?

*“If you always do
what you’ve always done,
You’ll always get,
what you’ve always got.”*

Continuous Improvement
It's a Journey...
Not a Destination
Continually Improve CI

Secret to an Effective Continuous Improvement Program

CULTURE

“Values Used To Make Decisions”



Culture:

What you do when
nobody is looking ...

Keys To Culture

- Management Must Lead - Model Behavior
- Employees Must Have Ownership - Gain Sharing
- Tools – Simple & Standardized / Always Improving
- Training - Problem Solving & Leadership
- Theme - Gives culture a “face”

Three Stages of Culture

Continuous Improvement

Stage 1: “The company is responsible”

Stage 2: “I am responsible”

Stage 3: “I am responsible for my fellow team member”

THE ACCOUNTABILITY LADDER... *LEAN BEGINS WITH YOU*



"We are what we repeatedly do. Excellence then, is not an act, but a habit."

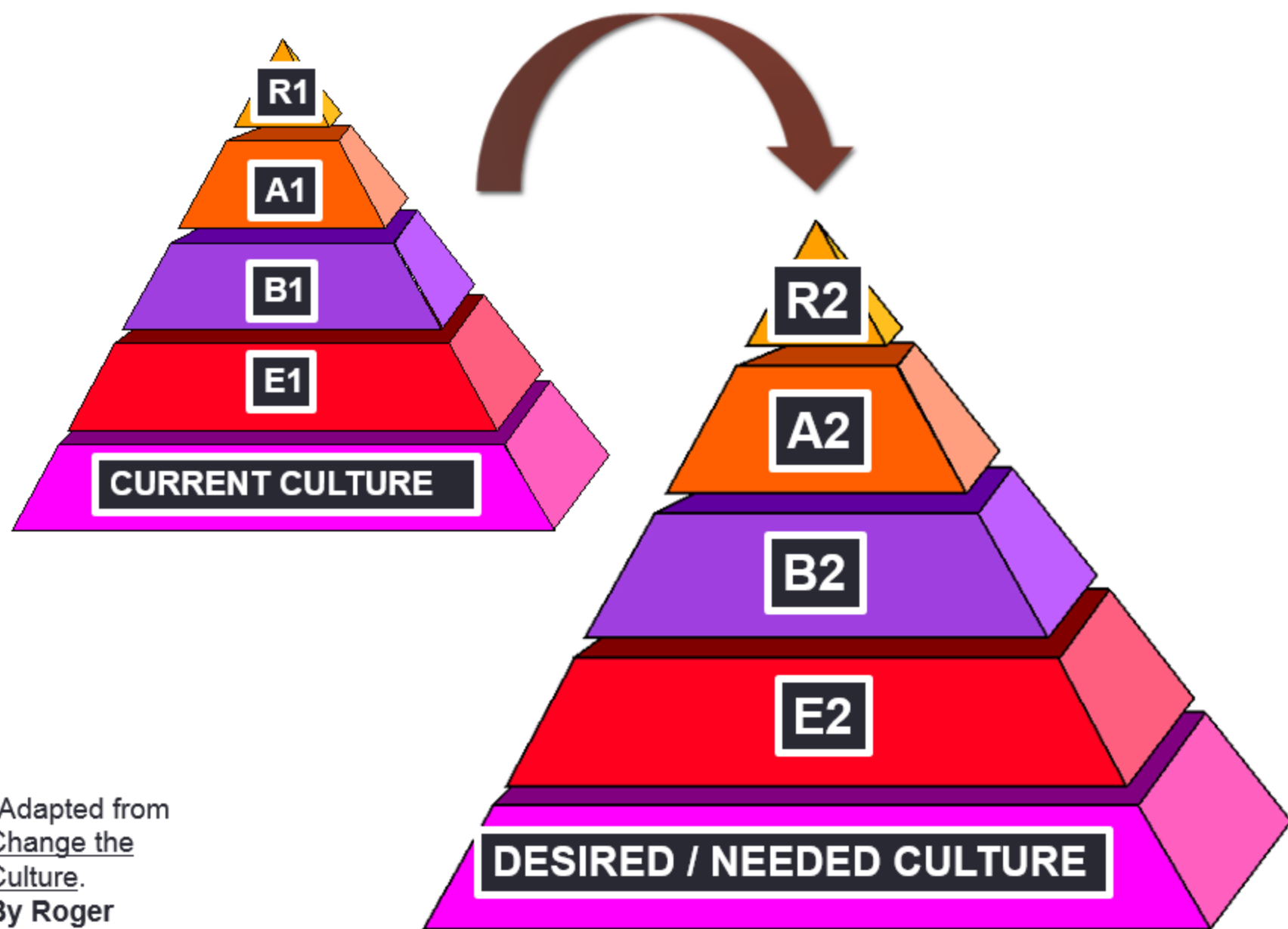
– Aristotle

Bulding blocks of culture



*Adapted from
Change the
Culture.

By Roger
Connors & Tom
Smith



*Adapted from
Change the
Culture.
By Roger
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Smith

Continuous Improvement Culture

Theme
Gives Culture a Face

Oz Principle



Courage

See It



Heart

Own It



Brain

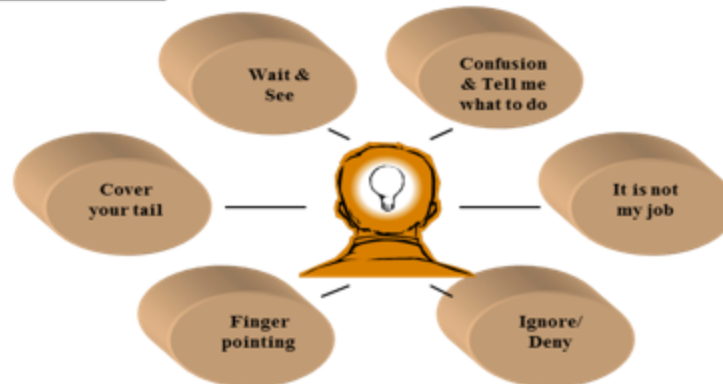
Solve It



Action

Execute

THE LINE



**Adapted from
The Oz Principle,
by Roger Connors*

Continuous Improvement Rules

1. Everyone participates
2. Prominent – 2nd only to safety and quality
3. Training:
 - Most Important Thing We Do & Worst Thing We Do
4. Must continuously improve CI:
 - Sustain the Journey
5. Manufacturers do two things:
 - Launch New Products & CI

CI System

Four Elements

1. Continuous Improvement Teams
2. Kaizen Events
3. Performance Focused Training
4. Lean Strategies

Launching the system

Teams

- CI Teams (Both Manufacturing and Office)
- Audited Quarterly by Staff
- Continuous Improvement based on metrics that impact EBIT (Root Cause-Corrective Action)

Continuous Improvement Teams

3 Type of Teams

1. Production
2. Support
3. Office

Meet twice per month.

Rewards granted quarterly
*Best Team
*Best Project Award

Key Elements

- **Team Mission (one sentence)**
- **Process Map (road map to identify problems)**
- **Metrics (measurable, impact profit)**
- **Root Cause-Corrective Action (problem solving)**
- **Projects (CI versus 5S)**
- **Meeting Minutes (guide team actions)**
- **Benchmarking (1 per quarter)**
- **Audit Report (measure effectiveness – feedback)**

All teams have a CI Board that displays:

TEAM MISSION

Your Mission Posted Here

PROCESS MAP

Your
Process
Map Posted
Here

REPORT CARDS

CI CI Production Team A Unit Form

UNIT INFORMATION

Unit Name: _____ Unit Number: _____ Unit Type: _____ Unit Location: _____ Unit Status: _____ Unit Manager: _____

UNIT DESCRIPTION

Unit Description: _____ Unit Purpose: _____ Unit Function: _____ Unit Location: _____ Unit Status: _____ Unit Manager: _____

UNIT DETAILS

Unit Name: _____ Unit Number: _____ Unit Type: _____ Unit Location: _____ Unit Status: _____ Unit Manager: _____

UNIT HISTORY

Unit Name: _____ Unit Number: _____ Unit Type: _____ Unit Location: _____ Unit Status: _____ Unit Manager: _____

CI/ 5S PROJECTS

[illegible]

TEAM METRICS

ERP CI Production Metrics Chart

DATE: 10/1/2010

TIME: 10:10:10

	Efficiency	Internal Quality	External Quality	O/L	O/T	O/T	Accidents
Mfg	95%	95%	95%	95%	95%	95%	0
Quality	95%	95%	95%	95%	95%	95%	0
Process	95%	95%	95%	95%	95%	95%	0
Safety	95%	95%	95%	95%	95%	95%	0
Total	95%	95%	95%	95%	95%	95%	0

ERP CI Production Metrics Chart - 10/1/2010 - 10:10:10

TEAM MINUTES

Your
Meeting
Minutes
Posted Here

TEAM BENCHMARK

Your
Benchmarking
Project Posted
Here

**TEAM
RC/CA**

Your RC/CA
Posted Here

All teams have a CI Board that displays:

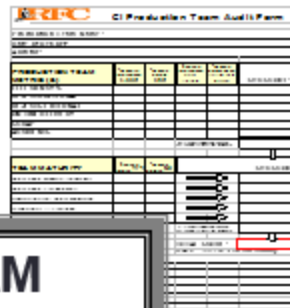
TEAM MISSION

Your Mission Posted Here.

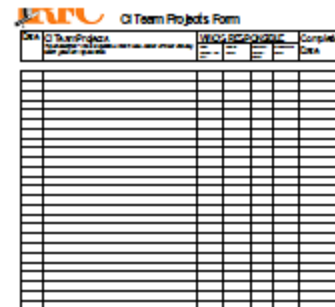
PROCESS MAP

Your Process Map Posted Here.

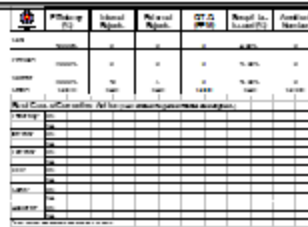
REPORT CARDS



CI/ 5S PROJECTS



TEAM METRICS



ROOT CAUSE/CORRECTIVE ACTION EVIDENCE

EFFICIENCY

**INTERNAL
PPM**

**EXTERNAL
PPM**

SCRAP

ACCIDENTS

CI Production Metrics Chart

TEAM:

Roll Mill Team

METRICS: Months or Quarter

July, August, September

	Efficiency (%)	Internal Rejects	External Rejects	O.T.D. (PPM)	Scrap/Lbs. Issued (%)	Accident Number	
Average or Total Previous Qtr	84.69%					0	
Month 1	78%					0	
Month 2	85%					0	
Month 3	94%					1	
Average or Total Current Qtr	85.66%					1	
Status: based on Qtr totals	GOOD					BAD	

CI Team Meeting Minutes

	1st Meeting Date:		2nd Meeting Date:
	Time Began: _____ Time Ended: _____ Attendees: Absent:		Time Began: _____ Time Ended: _____ Attendees: Absent:
REVIEW LAST MTG MINUTES			
REVIEW METRICS	Report Current Results Month: _____	OK/ Not OK (Attach form/s for RC/CA)	Follow-up RC/CA
Efficiency (%)		<input type="checkbox"/> OK <input type="checkbox"/> Not OK	
Internal Rejects (PPM)		<input type="checkbox"/> OK <input type="checkbox"/> Not OK Internal Reject Ticket	
External Rejects (PPM)		<input type="checkbox"/> OK <input type="checkbox"/> Not OK Customer Complaint & 8 Step	
Scrap/Lbs. Issued (%)		<input type="checkbox"/> OK <input type="checkbox"/> Not OK	
Accidents		<input type="checkbox"/> OK <input type="checkbox"/> Not OK	
Other:		<input type="checkbox"/> OK <input type="checkbox"/> Not OK	

PROBLEM SOLVING ACTION LIST

ACTION RESPONSIBLE DUE DATE DATE COMPLETE



ROLLFORMING 8 STEP CONTINUOUS IMPROVEMENT

ROOT CAUSE/CORRECTIVE ACTION FORM

1. Describe or sketch the problem

What are the symptoms of the problem? Specify the problems by identifying in quantifiable terms of what, when, where, why, how, how many, and trends.

2. Risk on similar products or processes

Identify any potential problem that may be introduced to additional products or processes as a result of the original problem (example: broken gage, equipment failure.)

3. Containment actions

Define and implement containment actions to isolate the problem from any internal/external customer until permanent correction action is implemented. (example: quarantine product, audits)

4. Root Cause of Non-conformance.

- What are the most likely causes? Identify the top two potential causes to determine the root cause of the problem using the cause and effect tools provided with 8D PSD. (fish bone, 5 why's.)
- If applicable, repeat process above to determine why the defect was not detected before being introduced to an internal or external customer. There will be root causes for not detecting the problem independent of the actual problem causes.

5. Ideas for Corrective Action

Have the team brainstorm and determine the best corrective actions that will resolve the problem without causing undesirable side effects. Corrective actions need to be specific to the actual problem being investigated. Lessons learned will address company wide changes to prevent similar problems in other areas.

6. Corrective action plan

Once ideas are in place define and implement the best permanent corrective actions. Monitor and evaluate long-term effects and assign individual tasks with targeted completion dates.

7. Effectiveness of action plan

Validate that the corrective action has been effective with charts, periods of time or repeatable test results. Provide documented test results showing how you have eliminated the potential for the reoccurrence.

8. Lessons Learned

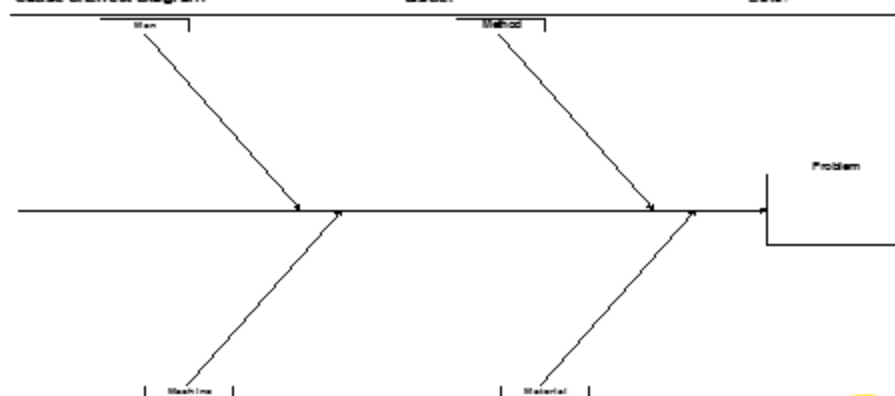
Take a moment to look back at the problem. What lessons can be learned? How can we ensure that this and similar problems do not happen again? What changes need to be made to maintenance, people and tools?

RC/CA FORM

Cause & Effect Diagram

Issue:

Date:



TEAM NAME:	TEAM LEADER:	DATE INITIATED:
	TEAM MEMBERS:	TARGET CLOSE DATE:
		ACTUAL CLOSE DATE:
		DATE VERIFIED:

1. Describe or sketch the problem in detail	4. Investigate and diagnose root cause (use fishbone on backside if appropriate)	6. Implement permanent corrective action plan - complete problem solving action list on backside
What is the defect? Where did it happen? When was it discovered? How big is the problem? (Quantify in pieces, dollars, etc) Is this a recurrence?	4a. Top 2 most likely causes of non-conformance 1. _____ 2. _____ Why? Why? Why? Why? Why? Why? Why? Why? Why? Why? 4b. Top 2 most likely causes of non-detection (if applicable) 1. _____ 2. _____ Why? Why? Why? Why? Why? Why? Why? Why? Why? Why?	6a. 6b. 7 Prevention/Verification: Demonstrate effectiveness of action plan tracking chart, time study, process flow chart, control plan, print, gage, supplier follow up: Ask the following question for verification: If we (chosen corrective action from step 5), we will not have (problem from step 1), because of (root cause from step 4)
2. Risk on similar products and processes		
3. Contain	5. List / Select Corrective Action	8 Team Recognition/ Lessons learned
	5a. (Relates to 4a.) 1. 2. 3.	A. Date/ Method of Team Recognition: B. Lessons learned and how shared: 1. 2. 3.

8 D's
5 Whys

CI Team Projects Form

CI Project Date Began:	CI Team Projects <i>Project description - Who is responsible, When it is due, \$ dollar or time or efficiency benefit gained with implementation.</i>	WHO'S RESPONSIBLE				Team Name:	
		Team M.C. G. L.	Tooling Team	Technical Support Team	Maint. Team	Date Complete	Cost Generated

*Segregate 5S

Kaizen Events

Kaizen

- 1- 3 Day Continuous Improvement Activity
- Include customers and suppliers

Goals

- Find and correct safety issues
- Analyze processes and waste sources
- Generate current and future improvement ideas
- Decrease scrap, increase efficiency

Results

- Efficient Work Cell
- Dramatic productivity and cost improvements

Performance Focused Training

- CI Orientation (STEPS)
- Technical
- Leadership Academy
- Team Building Academy
- Lean Model Line Instruction
- Standard Work



CI Orientation Training

24 hours in 6 courses on Lean
Manufacturing, Teaming,
Manufacturing Tactics, and
Introduction to Six Sigma

**Problem solving training for
participation in CI program**



Technical Training Programs

Pay for Skill Positions:



1. Roll Operator Training
 - ☐ Trainee
 - ☐ Apprentice
 - ☐ Qualified
 - ☐ Certified
 - ☐ Master
2. Tool & Die Makers – Levels 1-4
3. Quality Technicians – Levels 1-3



Leadership Academy

- 1 Year Program
- 12 Basic Leadership Principles
- New Team Coordinators / Group Leaders
- Theme – “*The Line*”
- Mentorship



Teambuilding Academy

- 5 Month Program
- Focused on communication & teambuilding skills
- People responsible for RFC Project implementation
 - *Sales, Customer Service, Project Engineer, Support*
- 5 Basic Teamwork Principles
- Theme – “***Working Through Conflict***”



Lean Journey Transition

1. Learned from industry leading customers the **VALUE** of Standardized Work and Model Line concepts.
2. Engaged TSSC (Toyota) to guide the development and implementation of the RFC Lean System
3. The RFC Lean System provides transformation to:
 - Nerve Center
 - Floor Focus
 - Timely ID of Issues
 - Accountability
 - Integration of Traditional CI
 - Model Line(s)
 - Leverage Best Ideas – Test Strategies
 - Gold Standard – Display Lean Strategies

Nerve Center Meetings
 Management and Resource Providers meet
 Mon – Thurs. In 30 minutes attendees work
 through the AGENDA and document the data
 on KPI Charts.

NERVE CENTER AGENDA

TOPIC	FACILITATOR
30 Minutes	<i>Plant Mgr. if GL is absent.</i>
1. Attendance - Accountability Board	Group Leader
2. Safety 'Find & Fix' – Open Concerns	Group Leader
3. Quality – Open Concerns	Group Leader
4. HR by HR Chart(s) – Open Concerns	Team Coordinator(s) - Review Charts
<ul style="list-style-type: none"> ● KPI's - Daily ● KPI's - Quarterly 	Group Leader - Chart Data from HR by HR Charts
5. Accountability Board	Group Leader - Discuss & Post Assignments
6. Review Project Timelines: <ul style="list-style-type: none"> a. 'Active' Projects b. 'Active' Kaizen c. 'Active' CI – (Efficiency/\$ Saving) 	Group Leader
7. Adjourn	All

RFC Hour-by-Hour

Work Station _____

Operator 1st shift _____

Date: _____

Operator 2nd shift _____

Time	Job Number	Std. Pcs./Hr.	Act. Pcs./Hr.	Eff. %	MIP SPC	L.C.	C.C.	Mtg	Comments / Concerns / Issues
05:00 AM - 06:00 AM									
06:00 AM - 07:00 AM									
07:00 AM - 08:00 AM									
08:00 AM - 09:00 AM									
09:00 AM - 10:00 AM									
10:00 AM - 11:00 AM									10 Minute Break
11:00 AM - 11:30 AM									Lunch
11:30 AM - 12:30 PM									
12:30 PM - 1:30 PM									
1:30 PM - 2:30 PM									10 Minute Break
2:30 PM - 3:30 PM									
First Shift Total									
3:30 PM - 4:30 PM									
4:30 PM - 5:30 PM									
5:30 PM -									

HOUR – BY – HOUR CHARTS

Data Drives TASKS / RESOURCES

ACCOUNTABILITY BOARD

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Due w/o
Bob	X	X	X	X	X																											
Sally	X	X	X	X	X																											
Jim	X																															
Henry	✓	✓	✓	✓																												
Joe	X																															
Bob	✓	✓	✓																													
Sally	✓	✓	✓																													
Jim	✓	✓	✓																													
Henry	✓	✓	✓																													
Joe	✓	✓	✓																													
Bob	X																															
Sally	X																															
Jim	X																															
Henry	X																															

TASKS are defined as value adding activities that one resource can quickly complete or guide/manage to completion.

What does a NERVE CENTER look like?

Team Identity

Team Name
Roster & Photo Form



DATA



KPI BOARD



PROJECT BOARD



ACCOUNTABILITY BOARD



Sustain Improvements

1. **Nerve Centers:** Metrics and Accountability
2. **ANDON:** Signal Problems “Immediately”
3. **Hour-by-Hour Charts:** Engage the Producer
4. **Standard Work for All Positions:**

- Operator
- Team Coordinator
- Group Leader
- Plant Manager
- COO



LREC	
GROUP LEADER - PRODUCTION	
✓ Name:	
Daily 2X	Audit Hr by Hr Boards
Daily	Audit Report's STWK Work
Daily	Schedule Manpower
Daily	Audit Kronos
Daily	Audit Visual
Daily	Accountability Meeting
Wkly. 1X	Safety Inspection Check List
Wkly. 1X	Gemba - Facility
Wkly. 1X	Gemba - Model Line(s)
As Req.	Morning Production Meeting
As Req.	Submit Resource Request(s)
As Req.	Kaizen Action Item(s) - Closure
Circle Today:	M T W TH F

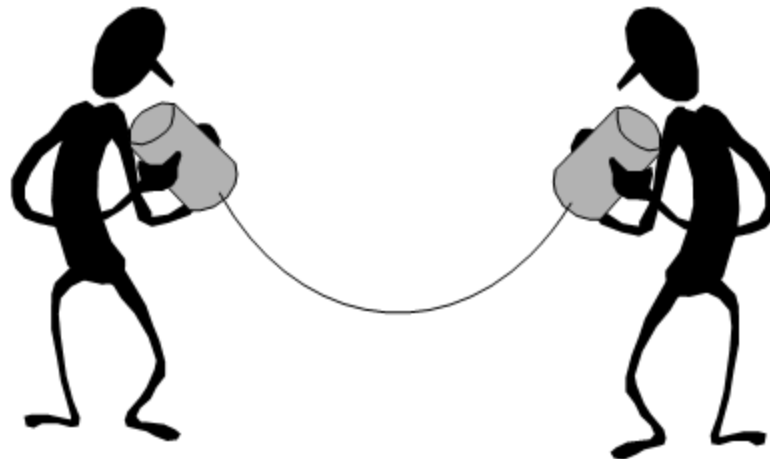
CI Lean Policy and Procedures on the OPERATIONS Side

CI Team Meetings:

CI Production Teams meet two (2) times a Month for a total of six (6) times per Quarter.

FIRST MEETING: Project Meeting – 30 Minutes

SECOND MEETING: Metrics Meeting – 30 Minutes



LEAN PRODUCTION TEAM MEETING AGENDA

Lean Production Team Meetings
Management and Team Members meet 2X's per month (6X's per quarter). In 30 minutes attendees work through the AGENDA focusing their problem solving on Projects and or Metrics Data to effectively identify value adding project work.

TOPIC	FACILITATOR
30 Minute Meeting – 2X Per Month	<i>Plant Mgr. if GL or TC is absent.</i>
VERIFY Team ROSTER - Correct if necessary.	
<p>1st</p> <p><u>Project Meeting</u></p> <ol style="list-style-type: none"> 1. Use Project Meeting Form# – Describe the Project, Who is Accountable, Due Date(s) and Value Annual \$ Savings. 2. Study, discuss and brainstorm the KPI Charts in the Nerve Center to “SEE” where project work will add value. 3. Use Project Description Form#, post on the Lean Team Project Board located in the Nerve Ctr. 4. 6S PROJECT – Each QTR the team is required to complete a 6S Project – Post Before and After Photo evidence on the PROJECT BOARD located in the Nerve Center. 	<p>2nd</p> <p><u>Metrics Meeting</u></p> <ol style="list-style-type: none"> 1. Use Metrics Meeting Form# - Discuss the updated current month metrics – Improved or Not Improved over the Previous Qtr. Avg.? 2. METRICS NOT IMPROVED – Team discussion of RC/CA – Provide evidence of RC/CA, attach 8D or other evidence of action to the Metrics Meeting Form. IMPROVED – Share ideas and best practices with group. 3. BENCHMARKING LESSONS LEARNED – Each QTR the team is required to evaluate, discuss and implement one (1) lean lesson ‘benchmarked’ from a source outside the team. Document lesson at the bottom of the Metrics Meeting Form#.

CI Production Team STWK

1 Team Roster/Photo



1 Project Meeting Form

	Khan Academy Lesson Worksheet for Teachers		PROJECT REEETING	
Teacher Name _____		Duration 1 2 3 4 5		
<p>1. Activity 1: Introduction</p> <p>Read the introduction text and answer the questions below.</p> <p>1.1 What is the purpose of the project?</p> <p>1.2 What are the main objectives of the project?</p> <p>1.3 What are the main challenges of the project?</p>				
<p>2. Activity 2: Planning</p> <p>Read the planning text and answer the questions below.</p> <p>2.1 What are the main tasks of the project?</p> <p>2.2 What are the main resources of the project?</p> <p>2.3 What are the main risks of the project?</p>				
<p>3. Activity 3: Execution</p> <p>Read the execution text and answer the questions below.</p> <p>3.1 What are the main activities of the project?</p> <p>3.2 What are the main results of the project?</p> <p>3.3 What are the main lessons learned from the project?</p>				

1 Metrics Meeting Form

STEWIE Lesson Production Team		MEMBERS		MODERATORS	
<p>CLASS: 2013-14</p> <p>NEW MEMBERS: 1, 2, 3, 4, 5, 6</p>		<p>MEMBERS:</p>		<p>MODERATORS:</p>	
<p>1st NEW MEMBER:</p> <p>1st NEW MEMBER:</p> <p>1st NEW MEMBER:</p>					
<p>2nd NEW MEMBER:</p> <p>2nd NEW MEMBER:</p> <p>2nd NEW MEMBER:</p>					
<p>3rd NEW MEMBER:</p> <p>3rd NEW MEMBER:</p> <p>3rd NEW MEMBER:</p>					
<p>4th NEW MEMBER:</p> <p>4th NEW MEMBER:</p> <p>4th NEW MEMBER:</p>					
<p>5th NEW MEMBER:</p> <p>5th NEW MEMBER:</p> <p>5th NEW MEMBER:</p>					
<p>6th NEW MEMBER:</p> <p>6th NEW MEMBER:</p> <p>6th NEW MEMBER:</p>					

8D (As required)

1 Previous Audit – By Staff

[illegible]
















Project Description Form

	STWIK Team Production Team PROJECT
	DESCRIPTION:
Team Name:	Quarter: 1 2 3 4 Month: 1 2 3
Project Description:	
TOTAL team value:	\$TOTAL BY QUARTER & MONTH:

**1 Project 6S Per
Quarter -
Before/After Photo**

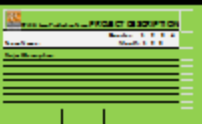
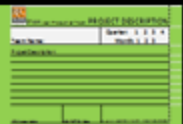
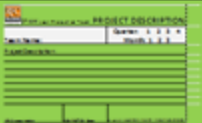
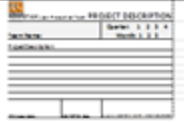
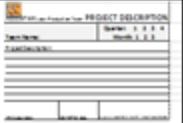
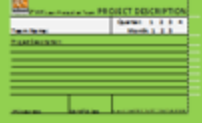
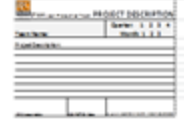
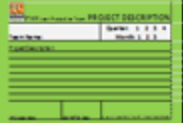
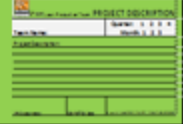

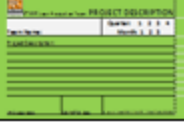
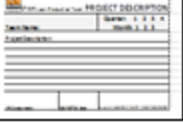
**3 Projects Per
Quarter - Est.
Annual \$**

PROJECT BOARD

TEAM	CURRENT QTR 1 2 3 4				SUMMARY \$ GROW STEPS BONUS!				
	ALL People in Referral / Step 1/2/3/4	END QTR 1	END QTR 2	END QTR 3	Q1	Q2	Q3	Q4	ANNUAL
Plant 1 Mail					\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$8,000.00
Plant 1 Secondary					\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$8,000.00
Answer JT					\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$8,000.00
Plant 1 Mail 2					\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$8,000.00
Plant 1 Mail 3					\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$8,000.00

KEY COMPLETED LATE

PROJECT BOARD Replaces Project List

PROJECT BOARD									
TEAM	CURRENT QTR 1 2 3 4				SUMMARY \$ <i>GROW STEPS BONUS!</i>				
	65 Project Before / After Photo	MONTH 1	MONTH 2	MONTH 3	Q1	Q2	Q3	Q4	ANNUAL
Plant 1 Roll			Plant Mgr. Approved		\$10,000	\$1,000	\$1,000	\$1,000	\$13,000
Plant 1 Secondary					\$2,000	\$1,000	\$1,000	\$1,000	\$5,000
Answer JT					\$1,000	\$10,000	\$1,000	\$10,000	\$22,000
Plant 1 Roll 2		Plant Mgr. Approved	Plant Mgr. Approved		\$5,000	\$10,000	\$10,000	\$10,000	\$35,000
Plant 1 Roll 3					\$500	\$10,000	\$1,000	\$10,000	\$21,500
KEY									
		COMPLETED		LATE					

STWK Lean Production Team Forms TEMPLATE

Lean PRODUCTION TEAM PACKET

CONTENTS



STWK Lean Production Team ROSTER

Aerospace Check/Straighten Position Wednesday - 2nd & 4th

Meeting Room 1000 Team Meeting: 1:00PM - 2:00PM

Name	Position
Ken Garcia	Operator
Bill Garcia	Operator
Sammy Garcia	3rd Shift/Reservist
Brian Ward	Engineer
Bill Regan	Operator
William Garcia	Quality
Michael Miller	Customer Service
Barry Hays	Quality



STWK Lean PRODUCTION Team AUDIT

TEAM NAME & LOCATION:

Auditor: Audit Date:

KPI METRIC(S)	IMPROVED		NOT IMPROVED		KPI METRIC (S)
	80 Points	NO KA	NO KA	NO KA	
SAFETY # RECORDABLE					0
QUALITY - INTERNAL PPM'S					0
QUALITY - EXTERNAL PPM'S					0
EFFICIENCY % OR O.A. %					0
SCRAP %					0
PROJECT COMPLETION %					0

TEAM STABILITY

	YES - 10 POINTS		NO - 0 POINTS		STABILITY SCORE
	POINTS	POINTS	POINTS	POINTS	
UPDATED Photo Team Roster & Previous QTR Team Audit					0
5 Minutes: 12 hours Recorded					0
1 PROJECT: 85					0
PROJECT COST SAVINGS Reported					0
TOTAL SCORE					0

Comments:

The TEAM recommended by the TEAM will be the QTR. (Only 5)

Team Leader: [Signature]



STWK Lean Production Team METRICS MEETING

TEAM NAME: QUARTER 1 2 3 4

SHARE FINDINGS WITH TEAM

SAFETY # of RECORDABLE ACCIDENTS: 0 (If 0, then 0)

INTERNAL PPM'S: 0 (If 0, then 0)

EXTERNAL PPM'S: 0 (If 0, then 0)

PROJECT COMPLETION: 0 (If 0, then 0)

SCRAP: 0 (If 0, then 0)

EFFICIENCY or O.A.:

Previous Month METRICS

Date:

PROJECT COMPLETION

SCRAP

EFFICIENCY or O.A.

1st Month Metrics Meeting

Date:

PROJECT COMPLETION

SCRAP

EFFICIENCY or O.A.

2nd Month Metrics Meeting

Date:

PROJECT COMPLETION

SCRAP

EFFICIENCY or O.A.

3rd Month Metrics Meeting

Date:

PROJECT COMPLETION

SCRAP

EFFICIENCY or O.A.

Previous QTR AVG:

Current QTR AVG:

RFC009 - 01/13

1

2

3

STWK Lean Production Team Forms TEMPLATE

Lean PRODUCTION TEAM PROJECT BOARD



4

[illegible]

5


G

STARK Loan Production Team - PROJECT DESCRIPTION

3 Projects Per Qtr (Online) Sat Sun Mon

PROJECT Meeting 0078

CHECK ME OUT:



STARK Loan Production Team - PROJECT DESCRIPTION

3 Projects Per Qtr (Online) Sat Sun Mon

PROJECT Meeting 0078

CHECK ME OUT:

\$ COST SAVINGS

SUB RESPONSES \$ -

NO SUBMITTING TO DATE

\$ COST SAVINGS

SUB RESPONSES \$ -

NO SUBMITTING TO DATE

\$ COST SAVINGS

SUB RESPONSES \$ -

NO SUBMITTING TO DATE

\$ COST SAVINGS

SUB RESPONSES \$ -

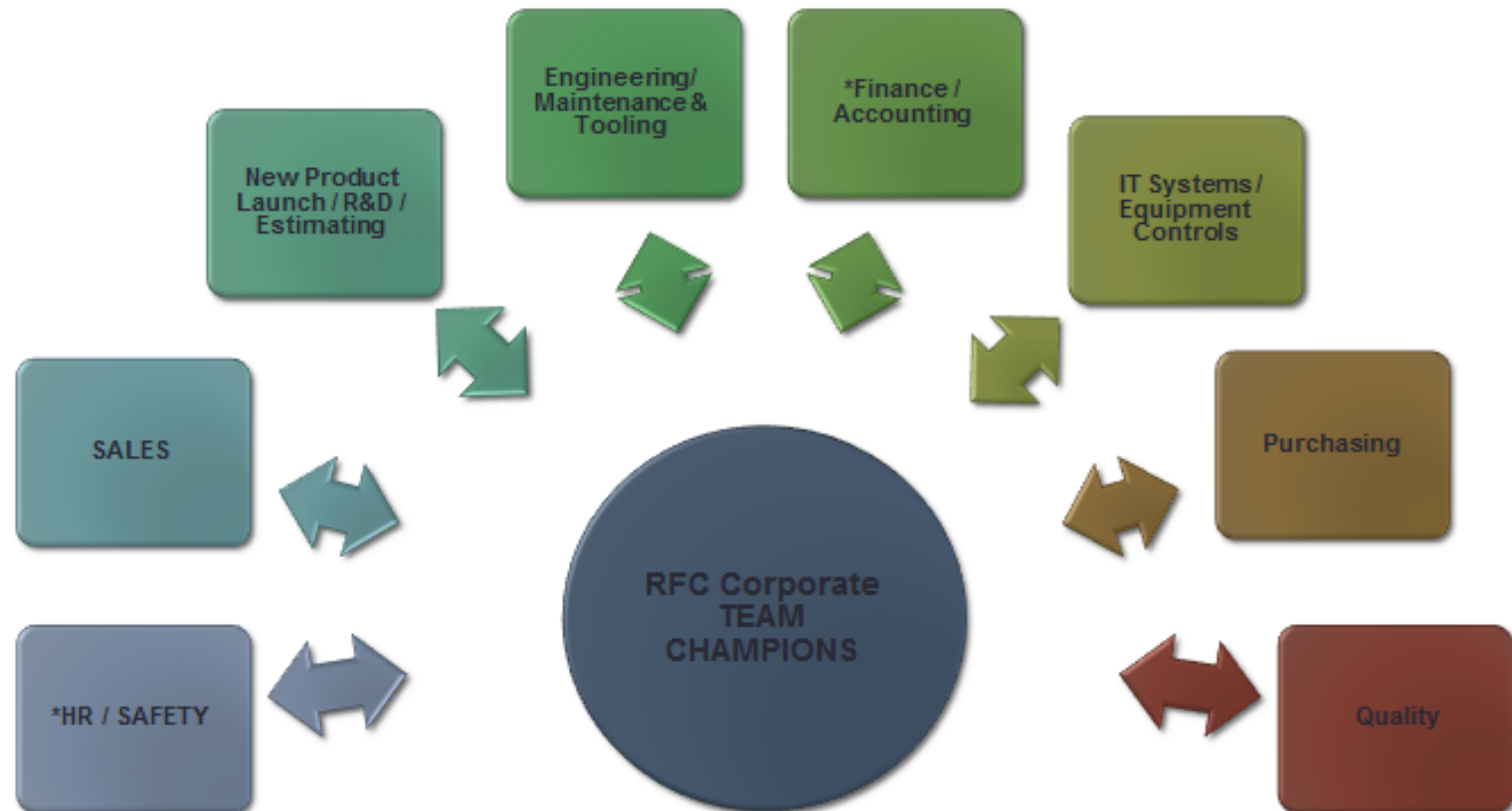
NO SUBMITTING TO DATE

\$ COST SAVINGS

SUB RESPONSES \$ -

NO SUBMITTING TO DATE

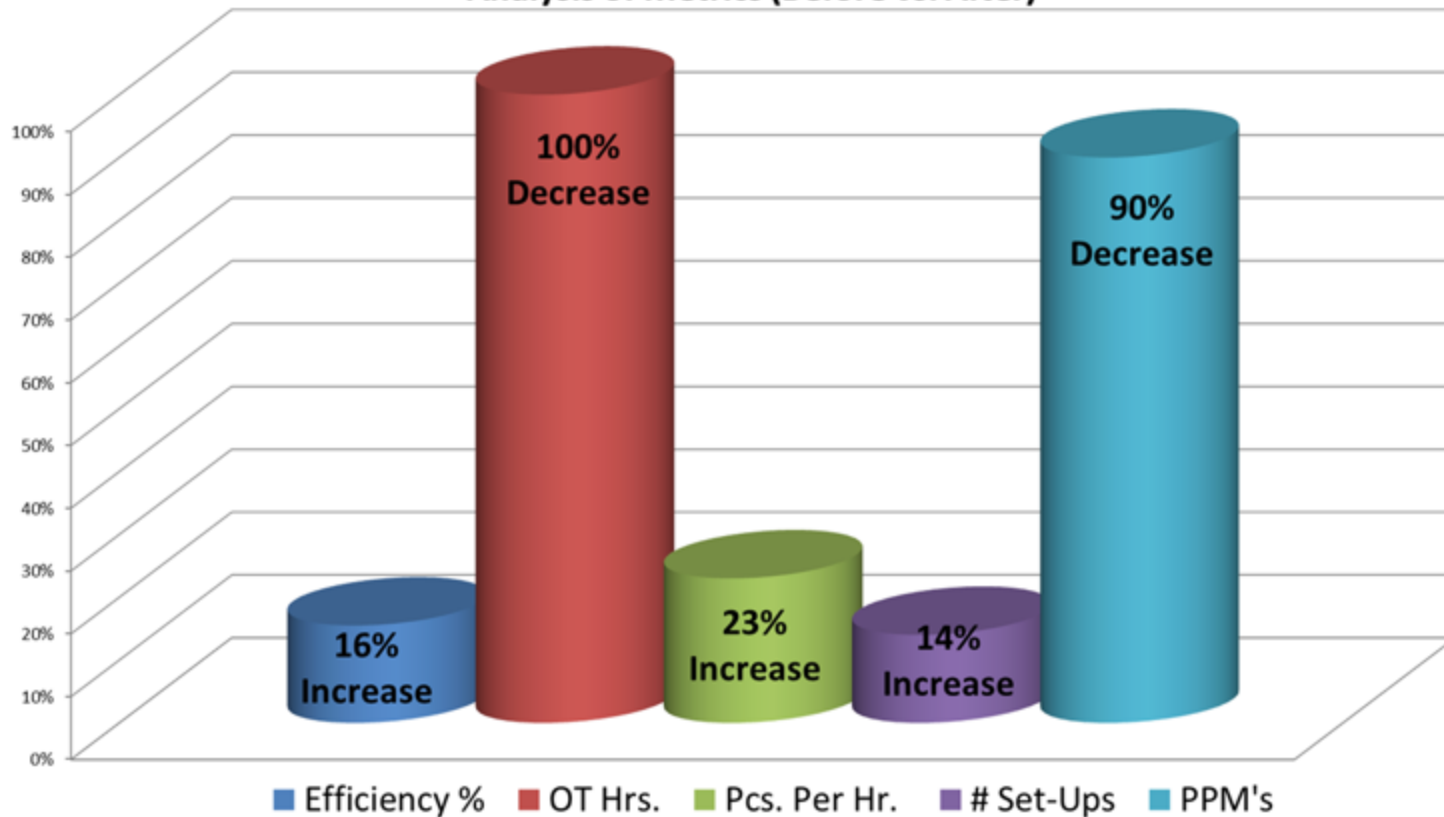
CI Lean Policy and Procedures on the CORPORATE Side



Significant continuous improvement occurs at the point of discovering a standard practice should be improved. If there is no standard, there is no improvement.

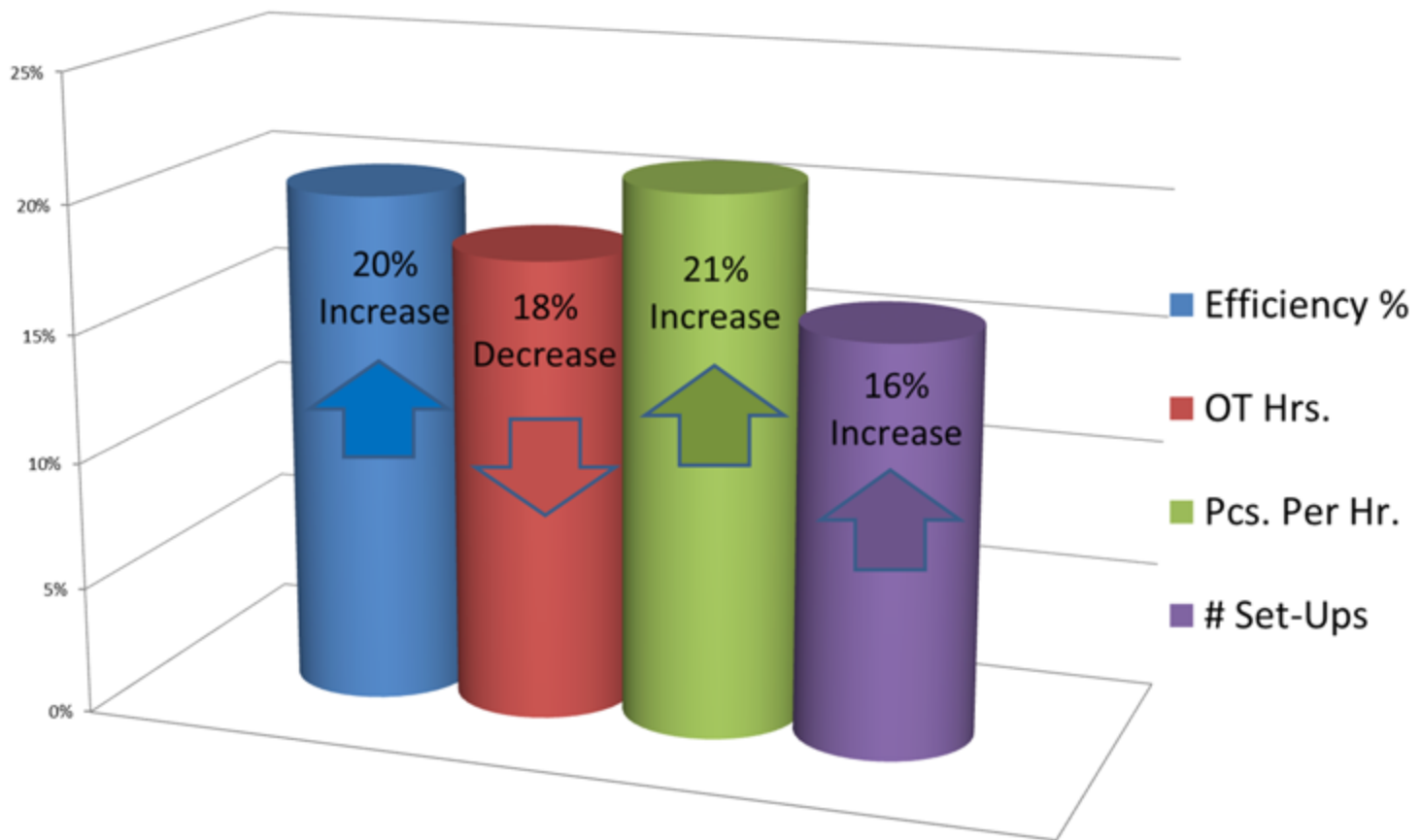
Before/After Lean Improvements

408 Model Line
Analysis of Metrics (Before vs. After)



Before/After Lean Improvements

429 Model Line
Analysis of Metrics (Before vs. After)



Examples of Leveraging Culture



Brainstorming Activity

- With the current economic downturn, all teams were challenged to spend their meeting time brainstorming immediate cost saving ideas.
- Ideas submitted were then prioritized using savings and implementation times as criteria.



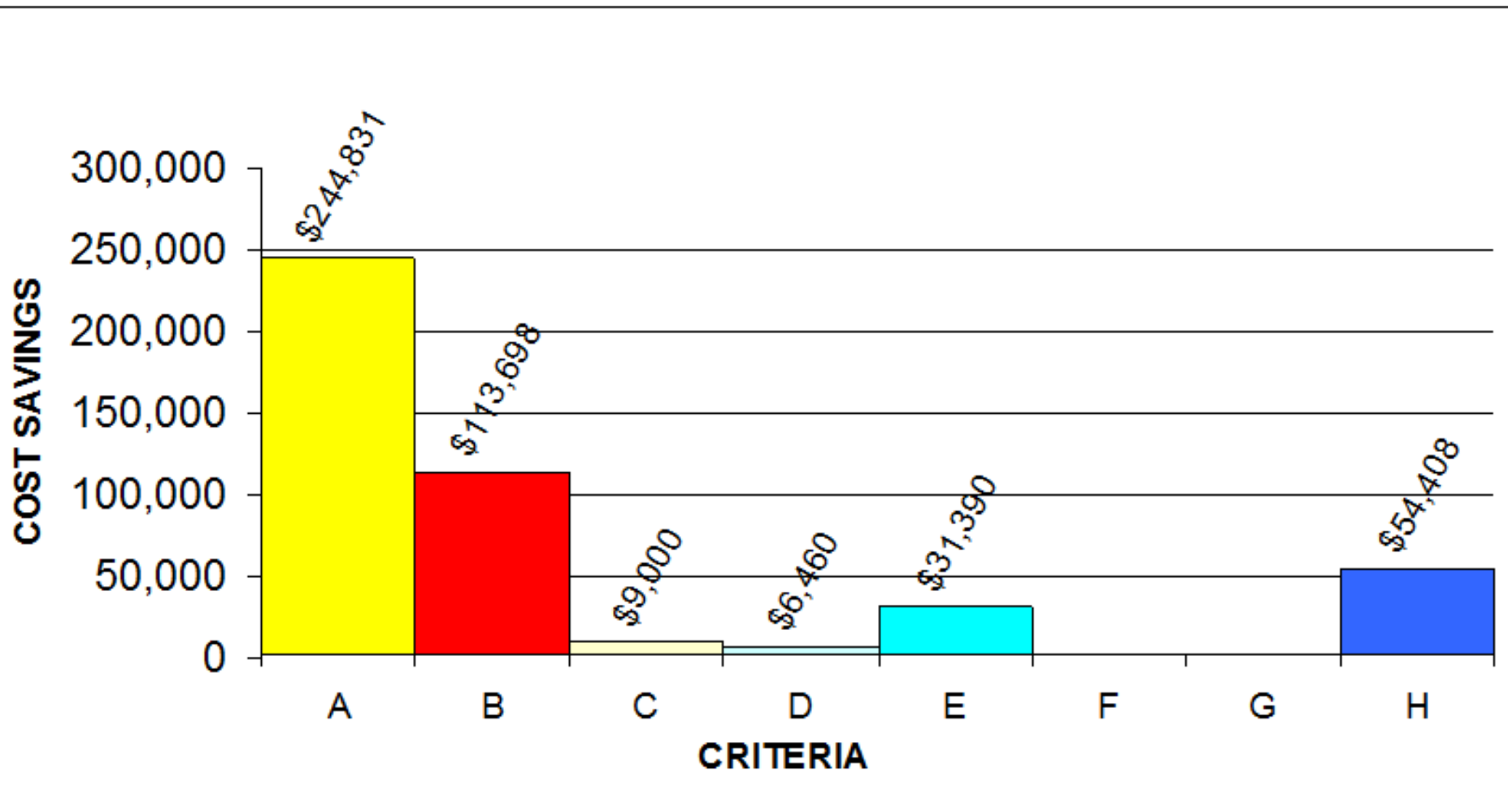
Priority Criteria

	A	B	C	D	E	F	G
Cost to Implement	\$0	\$0	\$0	>\$1000	\$1000-\$9999	<\$10,000	>\$10,000
Time to Implement	Immediate	<1 month	<3 months	Immediate	>3 months	>1 month	>3 months
Savings \$\$\$	Any amount	Any amount	Any amount	=>\$1000	>Cost to implement	>Cost to implement	>Cost to implement

H

If the items did not meet criteria for this brainstorming project timeline, will be put on CI Team Project Lists.

Brainstorming Chart



Improving Our CI Program

- Traditional CI
- Teambuilding
- Leadership Academy
- Benchmarking
- MFG Process Audits
- Metrics/CI Team Audits
- Pay for Skills
- STEPS Program
- Project Implement Gates
- Process Control Drawings
- Pit Crew Die Changes
- Cross Functional Teams
- CI Express
- Brainstorming Activity
- Kaizen
- Lean

Lessons Learned (Keys To Culture)

- 1. Doubled value added (increased profit)**
- 2. Builds customer and supplier partnerships (increased volumes)**
- 3. Maximizes team member ownership (improved relationships)**
 - Management Must Lead – Focus/Consistency
 - Employees Must Have Ownership - Accountability
 - Tools – Simple, Standardized / Always Improving
 - Training - Problem Solving & Leadership
 - Theme – Defines Culture
- 4. CI employee participation must be a condition of employment**
- 5. ZERO tolerance for “Non-Performers”**

Lessons Learned (Keys To Culture)

The background is a vibrant blue and orange gradient. It features several data visualization elements: a 3D pie chart with orange, green, yellow, and purple slices on the left; a line graph with two fluctuating lines (one red, one blue) in the upper left, with numerical markers at 120 and 90; and a 3D bar chart with several vertical bars of varying heights in the center and right, with numerical markers at 200 and 150. Overlaid on these charts is the text "CI must be a condition of employment" in a large, bold, 3D font. The text is colored yellow with an orange-to-yellow gradient and a strong 3D effect with shadows.

**CI must be a
condition
of employment**

- **What is your culture?**
- **What do you want it to be?**
- **What will you do about it?**



■ **Q&A**

■ **Thank you!**

Recommended Books for Building CI Culture

Ray Leathers, CEO, Roll Forming Corp

(502) 633-4437, x251

Go Giver

Bob Burg

It's Your Ship

Michael Abrashoff

QBQ (Question Behind the Question)

John Miller

Creating a Lean Culture

David Mann

Toyota Production System

Taiichi Ohno

Mary Kay Way

Mary Kay Ash

SPIRITUAL MOTIVATION

The Shack

Wm. Paul Young

Five Dysfunctions of a Team

Patrick Lencioni

Any "Leadership" book

By John Maxwell

Speed of Trust

Stephen Covey

It Isn't Just Business, It's Personal

Arunas Chesonis

Mojo, How to Get it.....

Marshall Goldsmith

How to Become a Great Boss

Jeffrey J. Fox