

The Magic is in the People

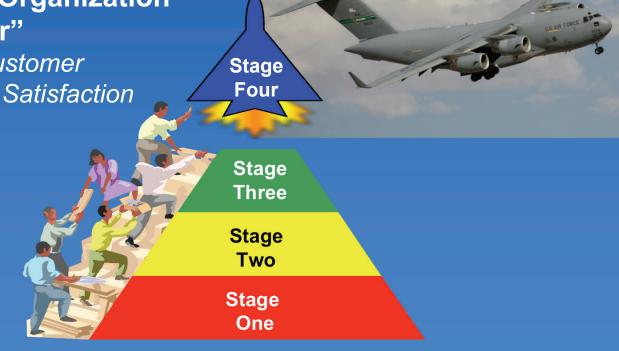
The C-17 Employee Involvement Story

"How to Transform Your Organization into a World Class Loader"

into a World-Class Leader"

Improving Performance, Customer
 Satisfaction and Employee Satisfaction

Rich Nicholson, Psy.D. Charles Macias, M.A.O.C.







The Boeing Company

C-17 Globemaster III Program | Integrated Defense Systems

Overview

- Largest manufacturer of commercial jets and military aircraft
- Customers in 145 countries
- Largest exporter in dollars in the United States
- Over 153,000 employees in 67 countries
- 84,000 employees hold degrees, 29,000 advanced degrees





Products and Services

C-17 Globemaster III Program | Integrated Defense Systems

Overview

Capabilities in:

- Rotorcraft
- Electronic and defense systems
- Missiles
- Satellites
- Launch vehicles
- Advanced information and communication systems
- Maintenance, support and service providers





What if?

C-17 Globemaster III Program | Integrated Defense Systems

You could get...

over \$143,000.00

Per Team for Self-Initiated Projects (we have 3,500 teams)

Average Savings/Avoidance Per
Team-Based Business Improvement (TBBI)
(first year):

Business Results from Empowered Teams





What if?

C-17 Globemaster III Program | Integrated Defense Systems

You could get...

savings of nearly:

\$90 Million

to the Bottom Line

from a Single Program

The "Real" Employee Suggestion Program

Employee Cost Reduction Incentive Program

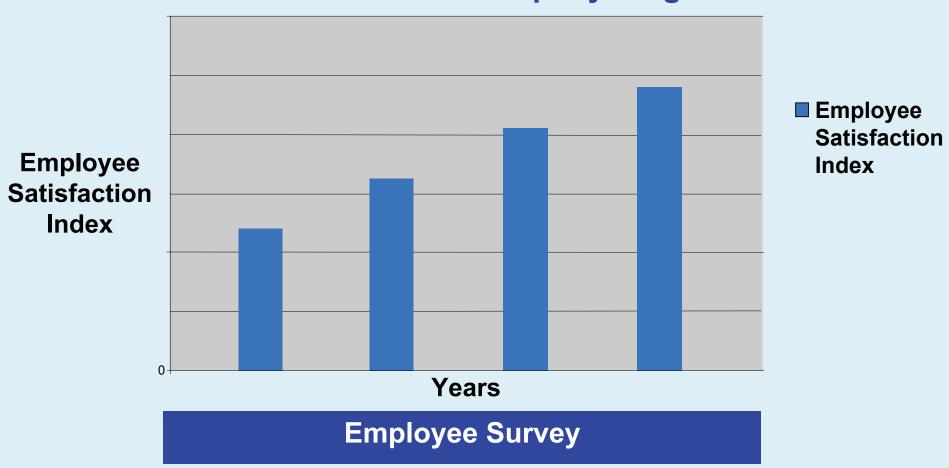




What if?

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Employee Satisfaction levels increased every year into the Premier Company range







Our Agenda

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- Take you on a journey it's a real story, not theory
- We will focus on application for leadership and teams
- Demonstrate how the "magic" is in the people
- Lessons Learned
- Best Practices
- Have time for Questions and Answers



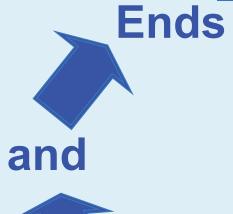


This Story

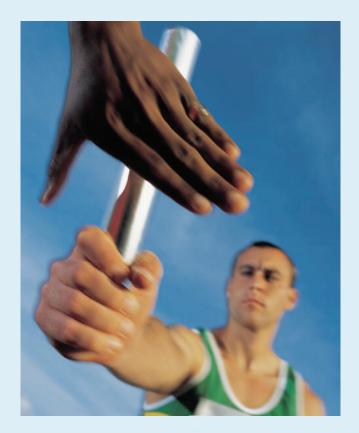
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With Leadership!











The Boeing C-17 Story of Empowerment and Cultural Transformation

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What we are about to share with you is relevant to any type and size of organization. The only requirement is that you have people with a common purpose.





Reason to Change – Desperation or Inspiration?

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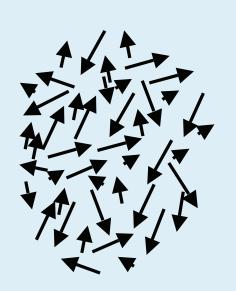
40 and No More... Unless You Perform (Customer 1993)



Aligning the Work to the Strategies

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Unaligned activities
Too many strategies
Too many independent metrics



Start aligning activities with Vision and Strategies

Good leaders spend time here

Work Group-Individual

1000 Unaligned Projects

Sound Business
Practices and Employee
Involvement



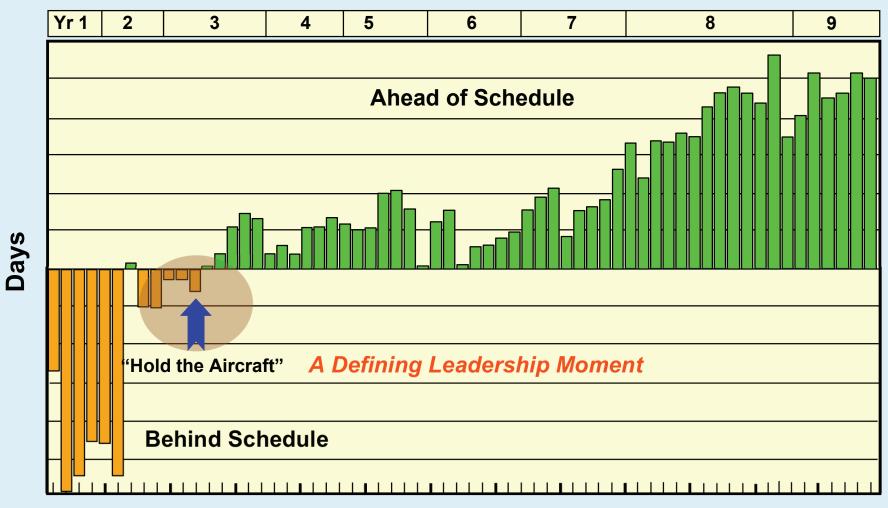




Turnaround in Delivery Schedule

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Organizational Results



Number of Aircraft



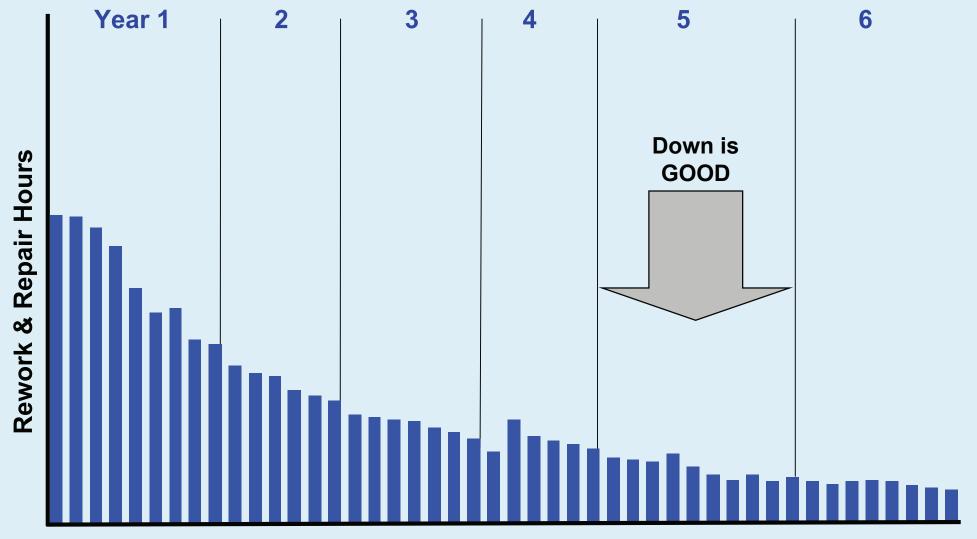
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Improvements Reduce Rework/Repair Costs

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Organizational Results









Employee Satisfaction Increased

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Organizational Results

The Employee Survey



Employee Satisfaction Scores Increased Every Year





Satisfied Customers

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Organizational Results

- We were able to reduce our pricing to our customer by 25%
- Our product was delivered on or ahead of schedule with record quality
- Received recognition from Customers for excellent service
- More Customer Orders
- The "Cash Cow" of the largest Aerospace Company in the World





Win the National Malcolm Baldrige Quality Award?

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Highest Award given by the U.S. Government for Quality







Steps to a High Performance Team-Based Organization







The Organizational Iceberg

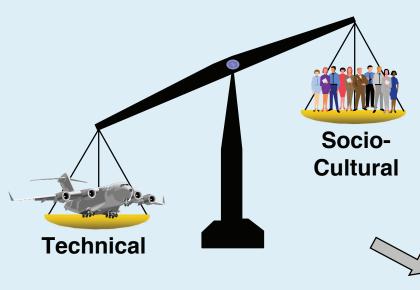




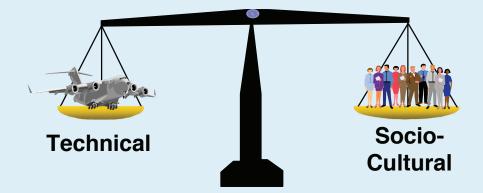
El Balances Your Technical and Social System

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The Socio-Technical System



Traditional



Balanced





The Law of Change

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Lesson

Lesson #1

If you always do what you have always done, you will get what you have always gotten!

Einstein Quote

"Insanity is doing the same thing over and over again, and expecting different results"

Action

Companies tend to be slow on action A Leadership Moment

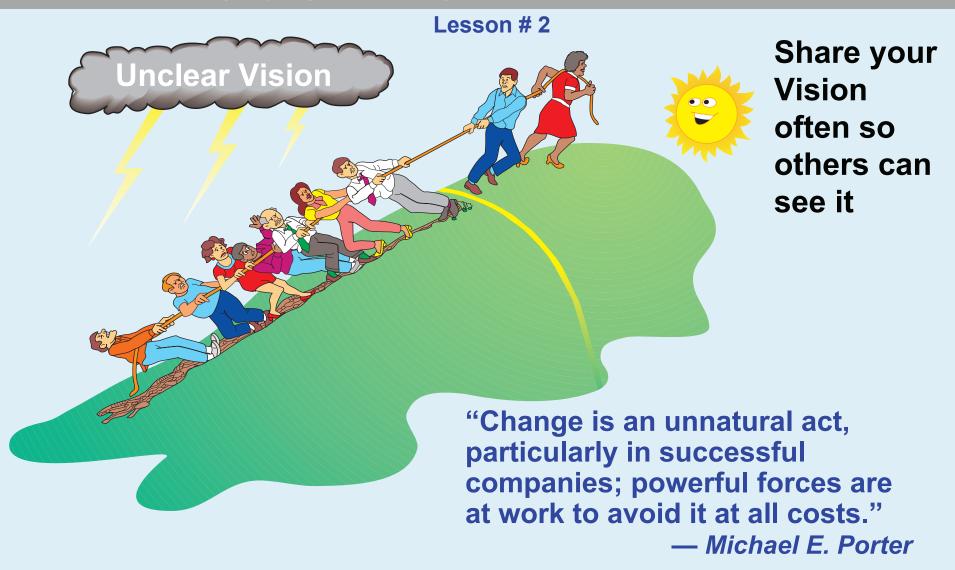
If you want a different outcome, you must change either the process, the product, or both, *NOW*





Change is Hard for People if They Don't Know Where They are Going and Why

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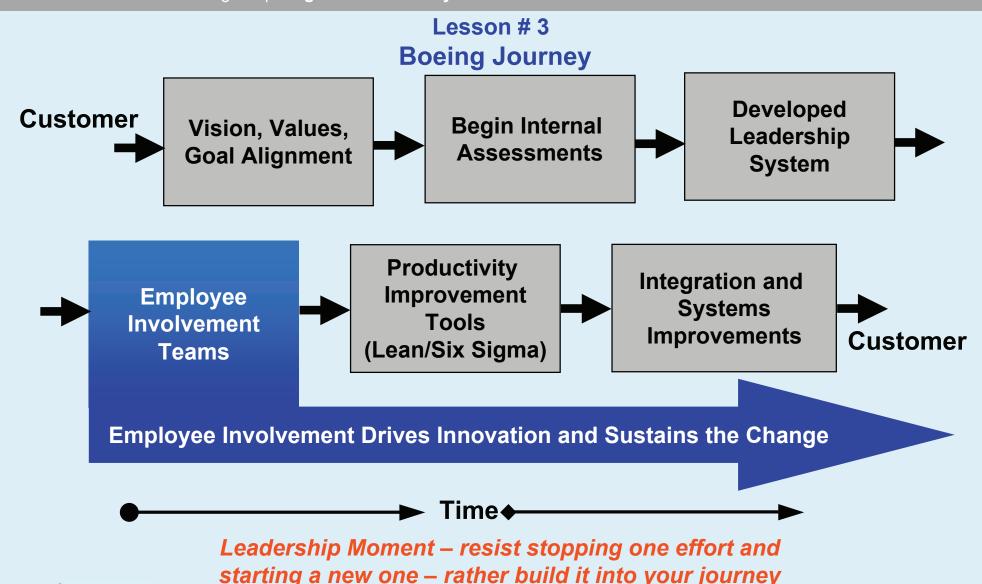




A BOEING

It's a Journey – Not an Event (Be Persistent—Never Stop Improving)

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Leaders are...

...Purveyors of hope!

...Create the vision and inspire others to achieve it



Leaders take us places...

...We normally don't go alone!



Leaders create the environment for...

...Peak Performance!

...and Employee
Satisfaction



Leaders must be Role models and...

... Walk the Talk!



Lesson #4

Leaders must...

...Execute the Business Strategies

through others ... with the People!

When employees are part of defining what it means to them, there is more personal commitment



Leaders must...

...Recognize!

...employees and successes



Lesson #5

Leadership must...

...Be persistent, stay on course!

...and Don't give up!





Vision and Values

A Compelling Future Everyone Can Understand





Vision and Values Our Foundation for Leading

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Boeing Vision 2016

People working together as one global company for aerospace leadership

Boeing Values

- Leadership
- Integrity
- Quality
- Customer Satisfaction
- People Working Together
- A Diverse & Involved Team
- Good Corporate Citizenship
- Enhancing Shareholder Value

Core Competencies

- Detailed Customer Knowledge and Focus
- Large-Scale Systems Integration
- Lean, Efficient Design and Production Systems





Boeing Leadership Attributes

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- Chart the course
- Sets high expectations
- Inspires others
- Finds a way
- Lives the Boeing Values
- Delivers Results

These attributes are the managers performance evaluation criteria





Assessment

An honest starting point





Strengths, Weaknesses, Opportunities, Threats

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SWOT Analysis

Best Practice Tool #1

Vision • •	
Strengths	Weaknesses
Opportunities	Threats





Take an Honest Look at Where You Are

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- Does the organization understand its customers and business?
- Does the organization have a clear Vision?
- Does the vision include people and teamwork?
- Do the employees know what the Vision is?
- Does the organization have Strategies and Supporting Objectives at all levels?
- Are employees encouraged to be involved in decision making and improvements for their part of the business?





Alignment

Line of Sight to Everyone

...A Leadership Moment





Line of Sight

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Best Practice Tool #2

Align Vision with Strategies and Supporting Objectives Throughout the Entire Organization

Best Practice Example

Vision and Values							
Strategic Imperatives Flowdown	Execute Business Plans	Lead Effective Teams	Ensure Customer Satisfaction				
Supporting Objectives with Goals (Org level 1)	†	†	1	1			
Supporting Objectives with Goals (Org level 2)							
Supporting Objectives with Goals (Org level 3)							

Line of sight upward through supporting objectives

This becomes your balanced scorecard to review regularly





Employee Involvement

The "magic" is in the people and teams





Productivity, then Innovation

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"It is the bias for innovation that must become a core competency if a company is going to be an industry leader and not a follower."

Stephen M. Shapiro

24/7 Innovation: A Blueprint for Surviving and Thriving in an Age of Change 2003





What is Employee Involvement (EI)?

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From Individual Engagement to Teamwork

- Employee Involvement engages the full potential of all employees through teams to achieve or exceed business goals
- Teams bonded together by clearly defined purposes and goals...
 Peter Scholte, The Team Handbook
- Teams do the planning, decision making and implementation within the workplace





El Creates Employee Satisfaction

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RESEARCH

Top 6 Key Drivers for Employee Satisfaction Based on the Employee Surveys

- 1. Encouraged to come up with new and better ways
- 2. Involvement in decisions
- 3. Satisfaction with recognition received for doing a good job
- 4. Opportunity to improve my skills
- 5. Conditions allow me to be productive
- 6. Job makes good use of skills





New Leadership Behaviors are Required

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The Challenge for Leaders

- 1. More of a participative leader vs. autocratic
- 2. Asks for the collective ideas of the team
- Treat them as business partners they will understand
- 4. Delegates day to day decision making
- Focuses on removing barriers and providing resources for the team to be successful

Participative Leadership is essential for Cultural Change





El Changes Roles of Leaders and Teams

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The Challenge for Teams

Roles of Team Members

- Meet weekly to identify and manage improvements
- 2. Commit to the vision and projects
- 3. Develop teaming skills
- 4. Participate in the teaming process
- 5. Share information and cooperate with one another

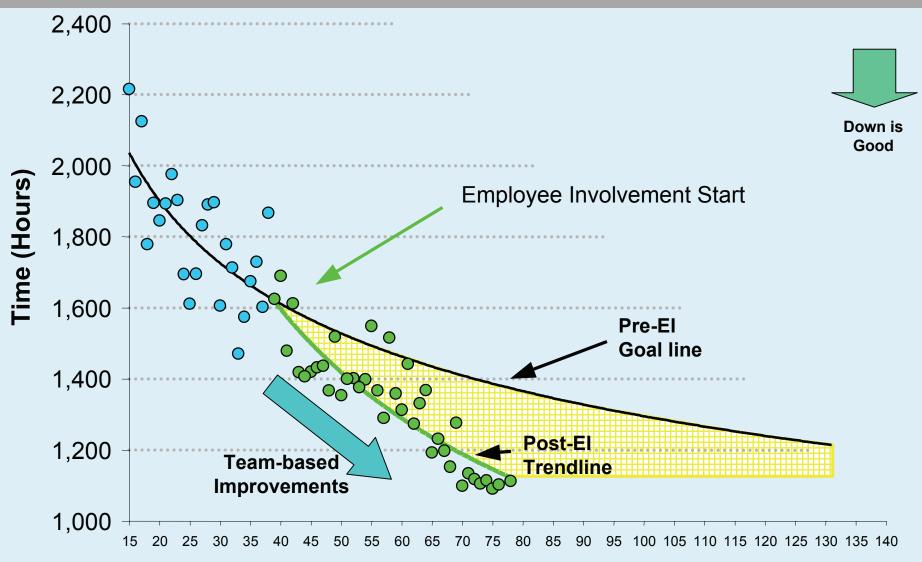
Teamwork is Essential for Cultural Change





Results Employee Involvement Saves Time

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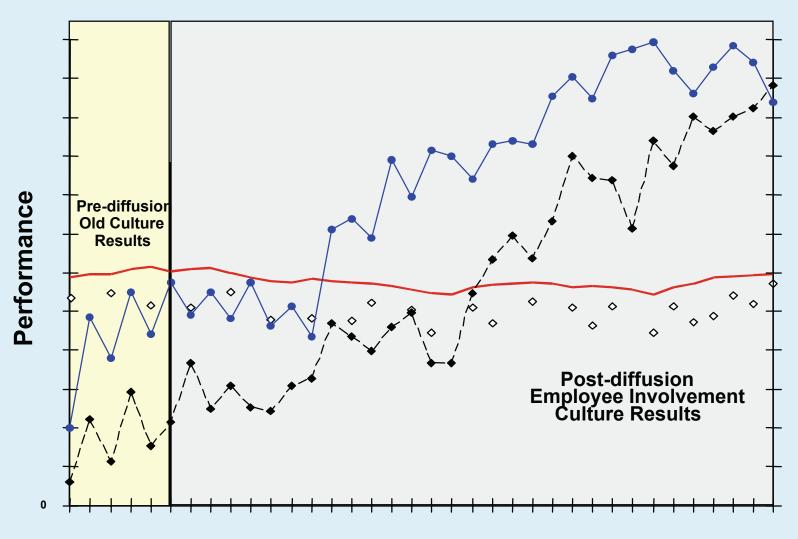


Completed Units



Results Employee Involvement Increases Performance

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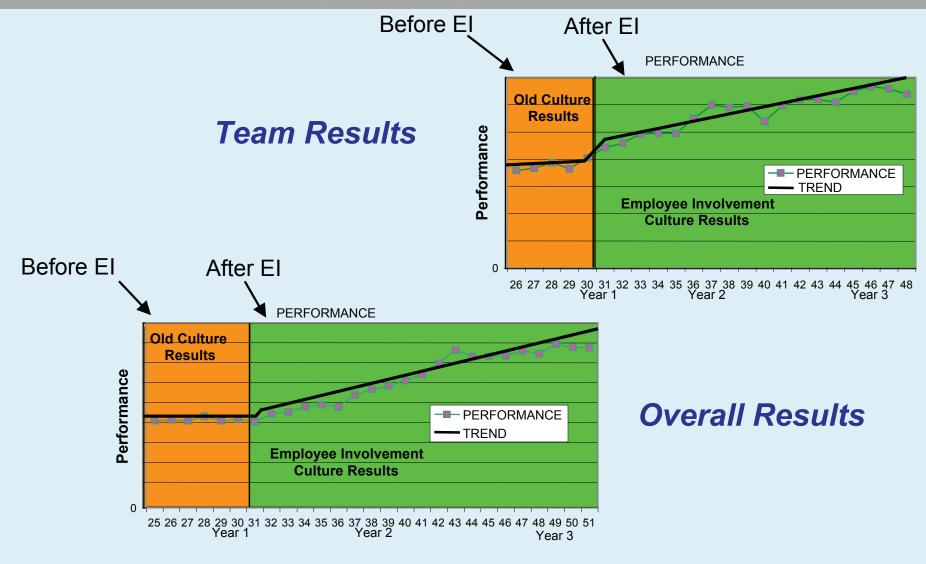
2 Measures: Performance Over Time





Results Employee Involvement Increases Team Performance Results

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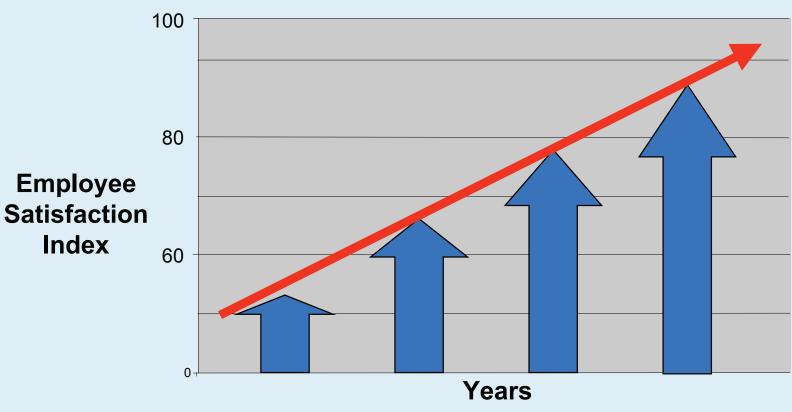


Employee Satisfaction Increased

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Organizational Results

Employee Survey Results



■ Employee Satisfaction Index

Employee Satisfaction INCREASES





Control Team Paperwork Elimination and Workplace Standardization

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Results

Employee Involvement Team Achievement Snapshot - Logistic Support Cecil Field



TEAM CHARTER

The purpose of the Comm Central / Antenna Control Team is to provide electrical and structural modification excellence to our internal customers and external customers on time and at minimum cost.

TEAM VALUES

Our team values working effectively and efficiently together, through the sharing of knowledge and creative thinking, while maintaining a safe and FOD-free working environment.

Summary of Accomplishments

Standardizing the Scaffolding:

6 remaining a/c, 55 days to complete the mod, estimated 7 man-hrs per day saved (7 people x 1 hr per day) = 2,310 avoided hours of touch labor waste = \$150,150.00 cost avoidance

Shop Aid Books vs. Data Packages:

6 remaining a/c, 55 days to complete the mod, estimated 3.5 touch labor man-hrs per day saved (7 people x 30 mins per day) plus estimated 0.43 support hrs per day saved (1 person x 3 hrs per week) = 1,297 avoided hours of touch labor and support waste = \$85,717.50 cost avoidance

TOTAL COST AVOIDANCE \$235,867.50





Employee Involvement Primary Team

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Results

Team Photo



Team Performance Metrics

Project 1: 373 Hours Under Budget

Project 2: 3500 Hours Under Budget for 12 Units

Team Charter

Purpose – to assemble and deliver units to

final assembly

Customers – U.S. Government

Guiding principles – meet or exceed our

customer's expectations for cost, quality,

schedule, safety, and 5S. Win new business
through continuous improvement

Team Recognition







Employee Involvement High Performance Work Team Affordability Task Force (ATF)

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Results

Team Members



Team Mission

Work together as an empowered, integrated team to make the most affordable, highest quality airframe

Metrics – Created and Maintained

Since the Producibility team formed in January 2002 it has reviewed and helped implement more than 400 cost reduction ideas that have amounted to \$402M in estimated savings to date

\$402M in large process improvement projects

Savings Versus Costs

3 Year Period

Cum Savings: \$402M

For every \$1 spent to improve the process, \$12 were saved as a result

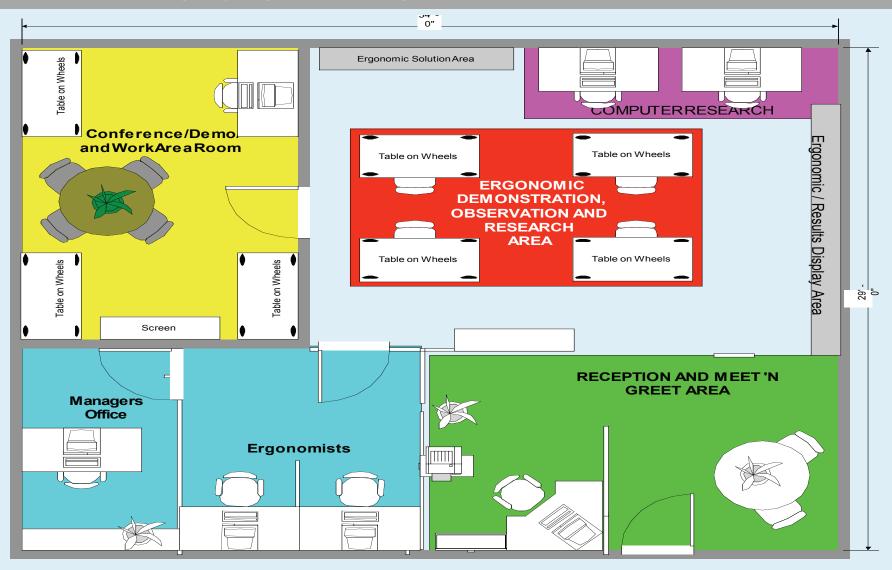




El Improves the Work Environment Employees Have Designed Their Own Office Space

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Results

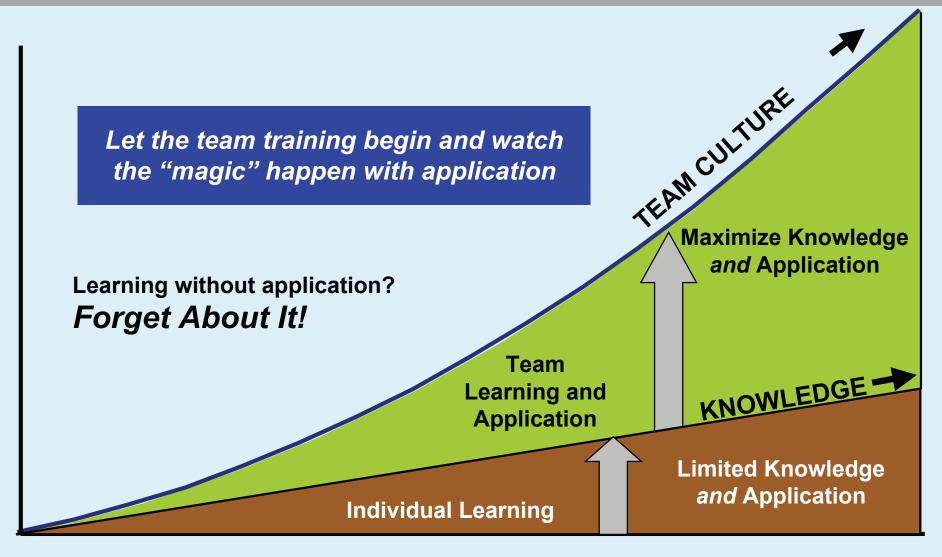






The Value of Team Training

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Training -



Team Training

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Lesson # 6 – All training must include immediate application to the team The power of team training is the discussion by the teammates for how they can apply it to their jobs

- Case for change
- Team Charter
- Effective Meetings
- Brainstorming
- Decision Making
- Empowerment
- Feedback
- Group Dynamics

- Problem Solving
- Strategic Planning
- Team Formation
- Communication
- Team Conflict
- Financial Management
- Leadership Development
- Coaching

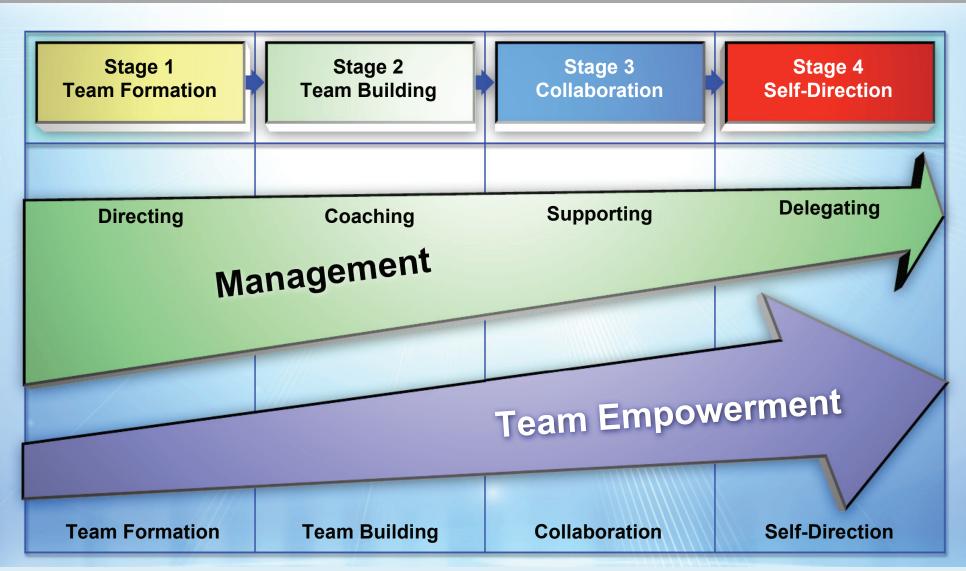
Training or Learning without application is useless!





4 Stages of Team Maturity

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Knowledge + Application = Team Growth

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OUTCOMES

TEAM FORMATION

- Develops team charter
- Develops empowerment schedule and reviews periodically
- Team understands goals and business objectives
- Schedules and holds team meetings
- Team adopts and begins to use metrics

TEAM BUILDING

- Reviews and updates empowerment schedules
- Identifies select processes for improvement
- Priority processes have been identified and variability reduction initiated (where appropriate)
- Maintains team records
- Begins applying Best Practices
- Teams begin to manage to metrics
- Completes appropriate training

COLLABORATION

- Reviews and updates empowerment schedule
- Identifies need for and schedules team training
- Team is setting own goals
- Utilizes process improvement tools
- Performance is improving in most key areas
- Monitors team performance and takes necessary actions
- Completes appropriate training
- Interfacing with suppliers and customers

HIGH PERFORMANCE

- Reviews and updates empowerment schedule
- Adjusts goals and metrics using comparative data
- Selection of team members with guidance
- Team makes its own work assignments
- Process improvements are on-going
- Team performance approaching "benchmark" levels
- Manages appropriate training

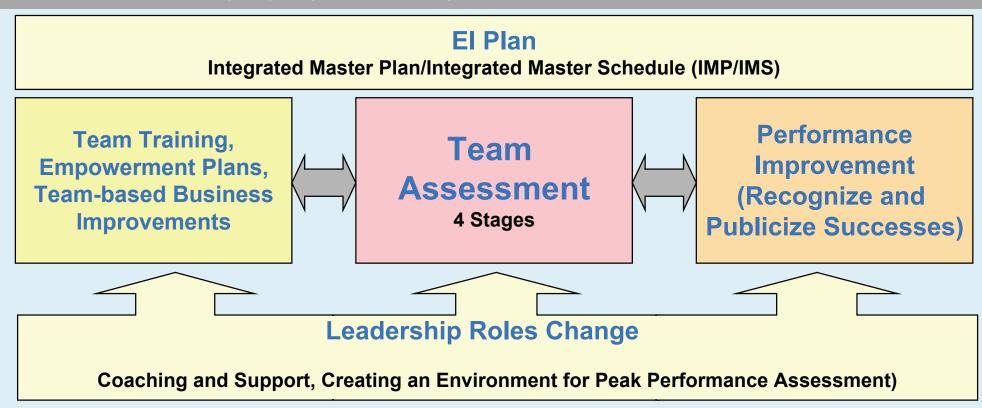
EMPOWERMENT





Employee Involvement Model

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Supporting the Team-based Culture

Track
Team maturity

Document Team-based Business Improvements Document
Large Company
Cross-functional
Improvements

Recognize teams and Publicize Results





You Must Have a Written Plan

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Lesson #7 – Best Practice Tool #3

Integrated Master Plan (IMP Example)

Critical Milestones	Person Responsible	Schedule of Time Line and Due Dates
1		\triangle \triangle
2		
3		
4		
5		
6		
7		
8		





Team Tools for Improvement Gap Analysis

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Best Practice Tool #4



GAPS

CURRENT STATE

As is condition

What needs to be done to begin moving to your future state

- People
- Processes
- Technology



FUTURE STATE

Where you want to be





Team-Based Business Improvement

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Best Practice Tool #5

Team-Based Bus Project	Team Stage: (1 to 4)	Red (Not Going	,			
Use this summary she	Use this summary sheet to document the project					
Team Name	Manager	Director		Project Start		
Function/Deb	Team Leader	Project Name		Project End		
Team Members: List Team Members and Fur	actions					
Project Selection: What is the project, and how business?	does it improve your					
Methods and Tools: What methods were used to opportunities: (e.g., fishbone						
Solution: What is your team's action plan? (List steps)						
Process/System Changes: Describe process or system changes, sustainability, and if it is a possible Best Practice						
Results: Show how your business was improved, cost savings/avoidance, and how the project improved team and customer satisfaction		Sav	ing	JS		





Empowerment Plan

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Best Practice Tool #6

10 Team Empowerments	Planned Discussion Date	Date Complete	Team Actions to Achieve More Involvement in the Empowerments	Mgr. Initial
1. Work Schedules				
2. Housekeeping				
3. Training/Employee Development				
4. Team Meetings				
5. 5S Work Area Configuration				
6. Job Standardization/ Procedures				
7. Goal Setting				
8. Continuous Improvements				
9. Team Self Assessments				
10. Team Budgeting				





Recognition Must be Part of the **Process**

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Lesson #8 – Best Practice Tool #7

Team Success Stories

Allow teams to document and present their successful projects and stories to Leadership

BUSINESS RESULTS:

- GETTING THE RIGHT PEOPLE, IN THE RIGHT JOB, AT THE RIGHT TIME: OVER \$66,000
- STRONGER COLLABORATIVE EFFORTS: OVER \$31,000
- RESPONSIVE TO BUSINESS SITUATIONS
- INDIVIDUAL CONTRIBUTIONS FOR BETTER TEAM RESULTS
- RESERVOIR OF RESOURCES -AD ROLE IN

PERFORMANCE RESULTS:

THE TEAM RETROFITTED OVER 3,400 LIGHT FIXTURES IN TWO BUILDINGS WITH ENERGY EFFICIENT LAMPS AND BALLASTS, RESULTING IN OVER \$42,000 IN REBATES FROM THE POWER COMPANY BETWEEN 1995 TO 1997. THE NEW TECHNOLOGY SAVES APPROXIMATELY 40% OF THE POWER CONSUMPTION WHILE PROVIDING MORE LIGHT AND EXTENDED LAMP/BALLAST LIFE.

BUSINESS RESULTS:

- PERFORMANCE INCREASED BY 44%
- REWORK AND REPAIR DROPPED BY 31%

BUSINESS RESULTS:

PERFORMANCE INCREASED TO 106.6% ON P66

DECREASED NUMBER OF TAGS FROM 50 ON P56 TO 8 TAGS ON P66

PERFORMANCE RESULTS: DUE TO THE DUTSTANDING EFFORTS AND DEDICATION OF THE PODS ELECTRICAL TEAM, THE EMPLOYEES HAVE BEEN ABLE TO:

RECOVER OVER ONE QUARTER UNIT OF SCHEDULE CONDITION (FROM -0.649 IN APRIL 1997 TO +0.38 IN APRIL 1998) MILESTONE CRITICAL PATH ACCELERATED CO. POWER-ON/WIT

1ANCE FROM 18%

COST OF THE

F LABOR HOUR

STUAL HOURS ON

HOURS ON P45.

HR TEAM HAS DEVELOPED A NEW, CONSISTENT

PROMOTION PROCESS

LESS TURNOVER

RETENTION OF MORE MORE HIGH PERFORMERS

> REDUCED EED DISPARITIES

BENEFITS:





ΑII

Traditional Roles Must Change

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Lesson # 9

- Gain commitment to improve business results
- Focus on continuous process improvement
- Always keep the customer in mind (internal and external)

Management

- Communicate clear vision
- Train and empower employees to make business decisions
- Ask employees to be fully involved and engaged
- Relinquish control as the team is able to take on more self management
- Recognize progress and successes

Workers

- With more responsibility comes more accountability
- Take ownership of more day to day decision making when ready
- Share information and support each other
- Elevate problems to the team and management before it is too late





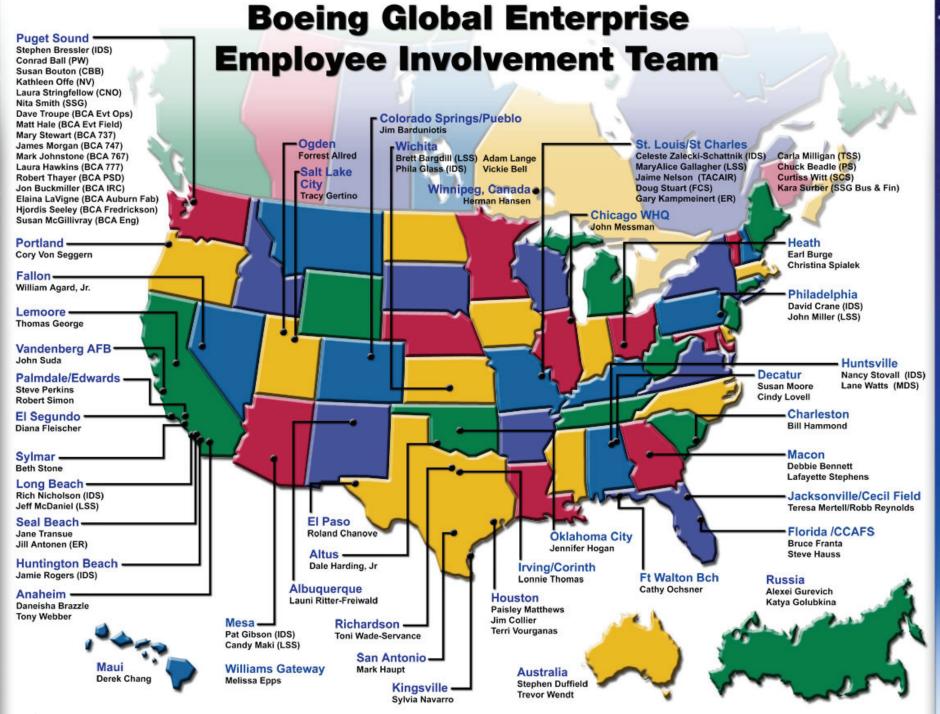
Employee Involvement Practitioners Help the Process

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Practitioners must have

- Good understanding of the Business
- Good Communication Skills
- Good Project Management Skills
- Respected by the Workforce
- Ability to Influence Others Toward a Strong Vision
- Is Results and Process Oriented







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How to Get Started

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Leadership

- Establish a vision that includes all employees and teams
- Flow down vision and supporting objectives to all levels of the organization
- Train Leaders in teams and roles
- Begin training natural work group teams, and teams begin team-based improvement projects
- Create Cross-functional Project teams around specific issues or projects
- Recognize progress and successes

Managers

- Let go of traditional roles. Become a leader that develops people and pave the way for change
- Encourage innovation, be role models, empower teams when they are ready





Top 10 Lessons Learned on our Team Journey We Have Covered

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- Lesson # 1: The Law of Change: If you always do what you have always done, you will get what you have always gotten!
- Lesson # 2: Change is hard for people if they don't know where they are going and why
- Lesson # 3: It's a Journey, not an event
- Lesson # 4: Leadership must deploy the Business Strategies with the People.
 When employees are part of defining what it means to them, there is more personal commitment
- Lesson # 5: Leadership must be persistent, stay the course and don't give up
- Lesson # 6: All training must include immediate application to the team
- Lesson # 7: You must have a written plan
- Lesson # 8: Recognition must be part of the process
- Lesson # 9: Traditional Roles must change (Leadership and team members)
- Lesson # 10: Enjoy the Journey!





Best Practice Team Tools We Have Covered

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Best Practice Tool # 1: SWOT Analysis

Best Practice Tool # 2: Line of Sight

Best Practice Tool # 3: Integrated Master Plans

Best Practice Tool # 4: Gap Analysis

Best Practice Tool # 5: Team-based Business Improvement

Best Practice Tool # 6: Team Empowerment Plans

Best Practice Tool # 7: Employee and Peer Recognition





In Summary: "We Are Still On Our Journey"

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- We have come a long way
- We are proud of our accomplishments
- We still have a long way to go
- We plan to be around for a long time



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E is the middle of



Employee Involvement







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Lesson # 10

Enjoy the Journey!

It is our honor and pleasure to speak to you today

We are happy to take questions

Thank you







Top 10 Lessons Learned Notes

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Lesson # 1: The Law of Change: If you always do what you have always done, you will get what you have always gotten!

Lesson # 2: Change is hard for people if they don't know where they are going and why

Lesson # 3: It's a Journey, not an event





Lessons Learned Notes

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 Lesson # 4: Leadership must deploy the Business Strategies with the People. When employees are part of defining what it means to them, there is more personal commitment

Lesson # 5: Leadership must be persistent, stay the course and don't give up

 Lesson # 6: All training must include immediate application to the team





Lessons Learned Notes

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Lesson # 7: You must have a written plan

Lesson # 8: Recognition must be part of the process

 Lesson # 9: Traditional Roles must change (Leadership and team members)

Lesson # 10: Enjoy the Journey!





Best Practice Team Tools Notes

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Best Practice Tool #1: SWOT Analysis

Best Practice Tool # 2: Line of Sight

Best Practice Tool # 3: Integrated Master Plans

Best Practice Tool # 4: Gap Analysis





Best Practice Team Tools Notes

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Best Practice Tool # 5: Team-based Business Improvement

Best Practice Tool # 6: Team Empowerment Plans

Best Practice Tool # 7: Employee and Peer Recognition

