Collaborative Diagnostic Methods

Michael Colburn

Doug Hartshorn



- Introduction of presenters
- Session objectives
- Relationship of presentation to Baldrige Criteria 3 (Customers), 5 (Workforce), and 6 (Operations)
- Hints on maximizing the value of this session
- Three Important Voices for an effective and collaborative diagnosis
- Case Study

Introduction of presenters

- Michael Colburn is a performance improvement professional that has worked with a broad range of businesses in the private and public sectors. He recently retired as an Associate Professor of Management at Ashland University where he taught Organization Development, Operations Management and Self Management & Accountability. Michael earned a bachelor of Industrial Engineering, a master of science in Industrial and Systems Engineering and a PhD in Adult Education, all from the Ohio State University. He is a registered Professional Engineer in the state of Ohio. Michael was awarded the Meritorious Service Citation by the College of Engineering of the Ohio State University. [E-mail: <u>dr.mjcolburn@gmail.com</u>].
- **Doug Hartshorn** is an Operational Excellence executive who has worked with a variety of businesses transforming them from traditionally managed organizations to lean organizations with a culture of continuous improvement. Doug earned his bachelor's in production Operations from Ohio University, an MBA from Capital University, and a master's in organizational development, from the Bowling Green State University. He is lean six sigma certified and . Doug is past president of the Capital City Organization Development Network. [E-mail: <u>deh073115@outlook.com</u>]

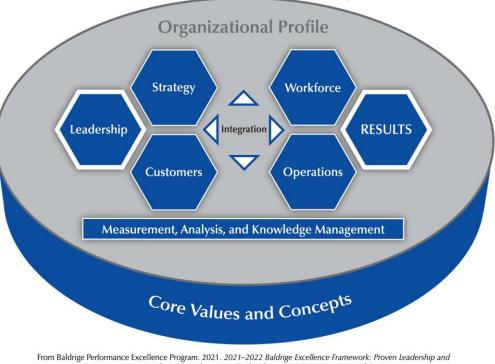
Session objectives

You will learn how to:

- Listen to three important voice of an effective diagnosis
- Use tools to identify and gather data for these three voices
- Observe the impact of these tools for system improvement and associate engagement
- Obtain resources for your continued development

Relationship of presentation to Baldrige Criteria

- Engaged Leadership
- Links Strategy Execution
- Customer
- Engage The Workforce
- Operations Process Foc
- Results Driven



n Baldrige Performance Excellence Program. 2021. 2021 F2022 Baldrige Excellence Framework: Proven Leadership Management Practices for High Performance. Gaithersburg, MD: U.S. Department of Commerce, National Institute of Standards and Technology. https://www.nist.gov/baldrige.

Hints on maximizing the value of this session



Keep track of your discoveries

Ask questions



Three Important Voices for an effective and collaborative diagnosis



Voice of the customer



allia

Voice of the associate

Voice of the process

Voice of The Customer







Who are they and how do we involve them in diagnosis and performance improvement? What is out value proposition with our customers (external and internal)? What are the four questions to use when interviewing questions?

Voice of The Customer

What do we do well as a provider of (product/services) to you ?

What are your needs and expectations as a provider of these (product/services?

What are the performance indicators that tell us that we are meeting these needs and expectations?

What can we do more of, better or differently to improve our performance?

The Voice of the Associate

How do we tap into the knowledge and experiences of the associates to diagnose the needs for process improvement?

How do we utilize the skills and good will of the associates to develop and implement solutions

The Voice of the Associate - Approach

1. What keeps you from doing your best every day? Using onequestion focus group to identify opportunities for improvement. to determine root causes to quality and productivity.)

(2) How building a process flow chart with a group of process members can make the process visible, identify pain points and generate improvements.

(3) How informal 'hanging out' with process owners and members can provide valuable information.

The Voice of the Process







THE VOICE OF THE PROCESS AND THE INTEGRATION OF THE THREE VOICES – CASE STUDY

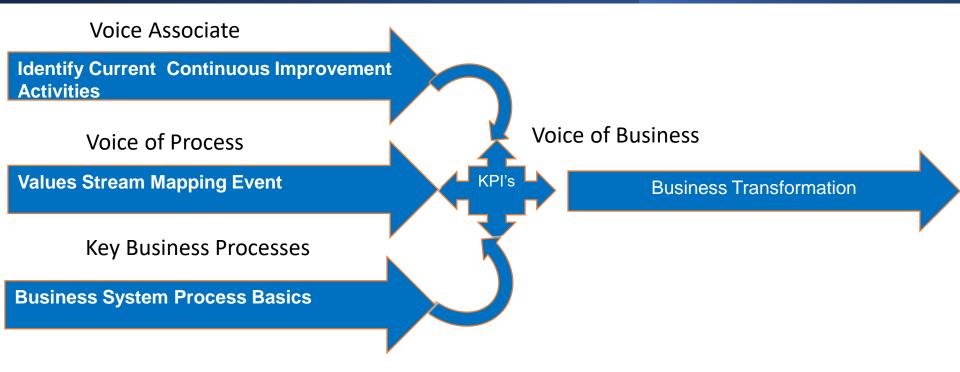


DOUG WHO WILL PRESENT HIS CASE STUDY AND SHOW THE TOOLS AND METHODS HE USED TO APPLY THE CONCEPTS OF THESE THREE VOICES TO IMPROVE PROCESS PERFORMANCE.

Sample Kickoff Agenda

- Opening Remarks- John Engagement of Senior Leadership
- Review of The Strategy & 2017 Business Goals <u>Linked to Strategy</u>
- Review Draft Deployment Plan Doug
- Change Management Strategy
- Next Steps Team

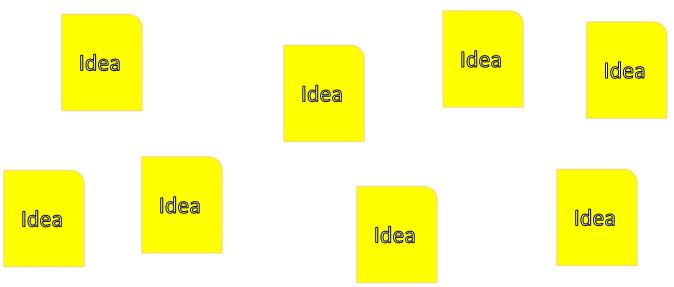
Voice of The Associate & Process



Voice of Associate – Avoid Delayed Perfection

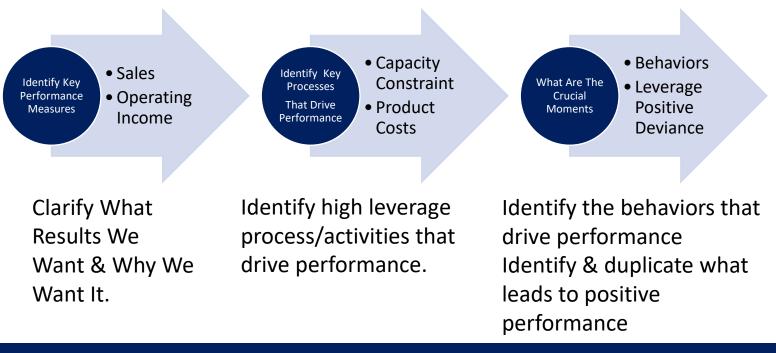
Identify Current Continuous Improvement Activities

• During Kickoff- What are the current continuous improvement activities – Everyone silently writes ideas on post -its



• During Kickoff- Ideas are documented and affinized

Establish a Change Management Strategy -Influencer



Voice of The Customer – Quality, Delivery, Cost, Service

Next Steps



Identify The Transformation Team



Develop a Communication Plan



Identify Area of Focus

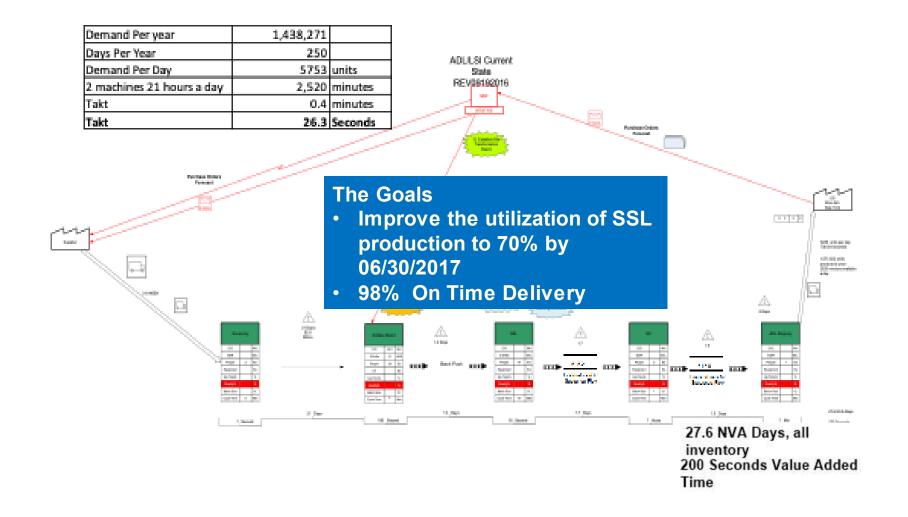


Schedule & Charter The Value Stream Mapping Event



Evaluate and Charter (if required) Current Continuous Improvement Activities

Voice of The Process Value Stream Mapping Event Includes Customer Expectations



Engaging The Voice of Employee Through Continuous Improvement Events

Transformation Plan																				
ADL Transformation Plan Process Owner:		K=Kaizen JDI =Mini Kaizen / JDI P=Project Capital,			Internal VSM	External VSM			- New or needs info / data						а				Approvals:	
Start Date	e: Sept 19, 2015 (Week 15)	P6=S	igma				_					Maal	l C ali	edul						
ltem	CI Activity	Type	Sponsor	Facilitator	Goa	ıl	2-Oct	9-Oct	L6-Oct	23-Oct	30-OCT 6-Nov	1 1	20-Nov	1		18-Dec	90 Day	Target Date	Resp. / Tm Ldr	Status (Plan / Post) - Green / Red
1	Shift Change		DF	DEH	Reduce Downtime Between Shifts			0,			1 4							20-Oct	Don Winks	
2	SMT Change-Over	к	DF	DEH	Reduce Downtime Between Jobs													20-Nov	Sharon	Plan
3	QC Reduce 100% Inspect	JDI	DF	DEH	Reduce None Value Activity													26-Sep	Sharon	
4	ABCD Analysis Kaizen (PFEP)	к	DF	DEH	Reduce Downtime Between Jobs, Improve Productivity, Customer Service													16-Oct	Paula	
5	Printer Project	Р	DF		Reduce Downtime													TBD	DW/DEH	Started
6	SSL (1-Piece Flow)	к	DF	DEH	Standard Work & Flow - Productivity(7,8,9,12)	Increase												11-Dec	Scott	Plan
7	Establish SSL & SMT Visual Management	к	DF	DEH	Improve Communication	n												24-Oct	Doug, Doug Scott	
8	Site Board	JDI	JB, DF	DEH	Improve Communication	n												10-Oct	DEH, Scott	
9	External Values Stream MAP	к	JB, DF	DEH	Develop External Busine Plan	es Transformation												16-Oct	DEH, D. Feeney	
10	ADTI Cell Design	к	JB, DF	DEH	Increased Sales													19-Sep	Don Winks, Deh	Ongoing
11	Quote Kaizen	к	JB, DF	DEH	Improve Customer Servi	ice, Increased sales												6-Nov	A.Greer, M.Allmon	Plan
12	Telesis 1 Piece Flow January 8	к	JB, DF	DEH	1 Piece Flow & Stabdard	l Work,												1/8/2017	D.Baker	Plan
13	January 22 SMED	к	JB, DF	DEH	Increased Utilization													1/22/2017	7 D. Winks	Plan
14	Scheduling	К	JB, DF	DEH	Improved Service & Thre	oughput												12/4/2010	5 D.Feeney	Plan
15																				

Voice of Customer – New Product

Opportunity: ADTI moved production of there video display boards from their Supplier in Mexico. The first was worth \$340K. The needed to be producing 60 units a day in a week

Cell design & Standard Work : Developed a U-shape cell with based on one piece flow and standard work.

Benefits: New Sales of \$340,000

Customer Feedback

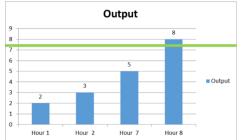
Jim Martindale President & CEO, ADTI Media, LLC <u>jim.martindale@adtimedia.com</u> 951.757.6005

On Oct 14, 2016, at 1:57 PM, Jim Martindale <<u>jim.martindale@adtimedia.com</u>> wrote:

Hello Dave and team:

Just wanted to send a note to thank you all for your outstanding efforts in bringing up our assembly cell, learning our product, procuring significant material, hosting our engineers, and getting modules out on schedule in this short period of time. We are very impressed with your capabilities and the ease of doing business with you. Likewise, our customer is very pleased with the products we've installed thus far and we are confident we will be able to continue to provide timely deliveries of quality products to them and all of our customers with your strong support. Hear that you have been able to implement Lean process improvements on our line "teal time" which is exciting and mutually beneficial.

Again, on behalf of the team at ADTI, thank you and we look forward to continuing a long and successful relationship with you.



Goal 60 a day or 7.5 per hour

Before



After

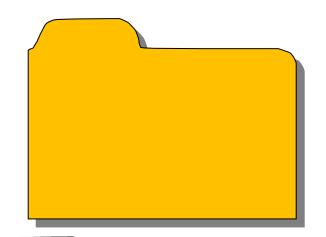


Voice of The Business – Process Basics

Problem: Lack of standard work and visibility around continuous improvement activities and business performance. Specifically, no transformation board, no standard work for the monthly Financial Review and Action Register

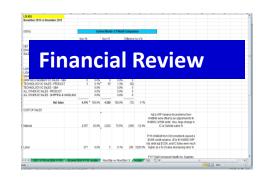
Solution Approach: Standard Work to drive continuous improvement and business performance

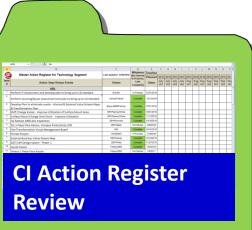
Benefits: Improved Capability





Transformation Board



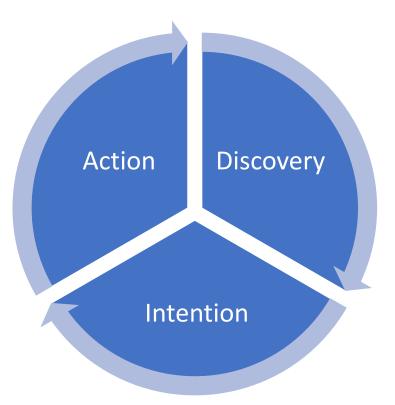




Voice of Associate- Activities Driven by Employees



Your Discoveries



Closing