# WasteStrategies ComplianceStrategies



ENVIRONMENTAL, HEALTH AND SAFETY SOLUTIONS

### Integrating Hazardous Materials Management Into Your Lean Operating Model!

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### About Me





Currently live in Pittsburgh, PA

Lived ten years in Columbia, SC

Spent majority of my career in heavy industry working for:

- US Steel
- Electrolux
- Bose
- Carpenter Specialty Metals

# **Discussion Topics**

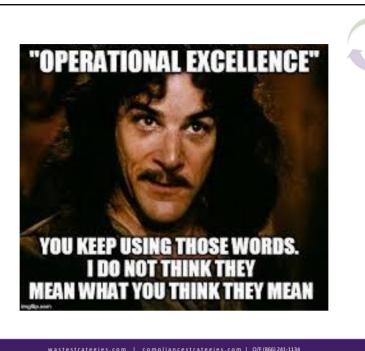


- 1. Introduction to the basic concepts / memes
- 2. Addressing Common Problems of Implementation
- 3. EH&S Process Interactions (PDCA)
- 4. Understanding the Requirements (Haz Mats)
- 5. Establishing Standards
- 6. Identifying Potential Problems
- 7. Problem Solving
- 8. Measuring Performance



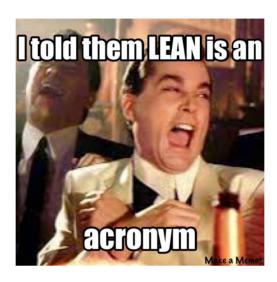
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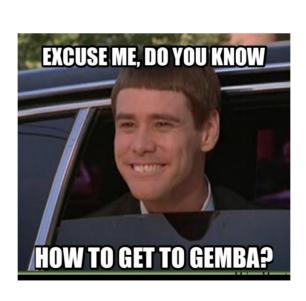






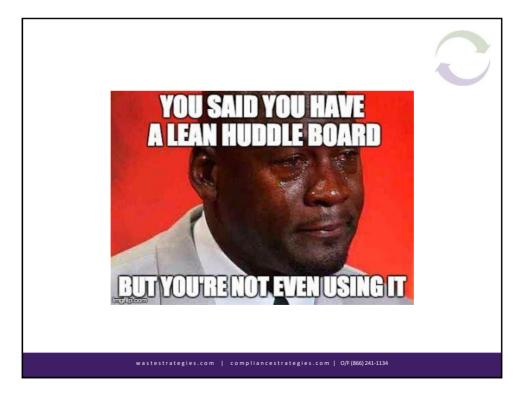


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## **Understanding The Basics**



#### What is Lean?

An approach to business processes that aims to minimize waste. Via - Kaizen, Value Stream Process Mapping, 5s, Kanban, Error Proofing, Productive Maintenance, Set Up Time Reduction, Reduce Lot Sizes, Line Balancing, Schedule Leveling, **Standardized Work**, and Visual Management.



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### **Understanding The Basics**



#### What is Six Sigma?

An approach to business processes that aims to minimize variation to improve output and quality via - Recognize, Define, Measure, Analyze, Improve, Control, **Standardize**, and Integrate.



# **Understanding The Basics**



#### What is Operational Excellence?

Operational excellence can simply be described as a **philosophy** that embraces **problem-solving** and **leadership** as the key to continuous improvement.



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# What does your organization need you to do?

Be a:



# Common Problems with Implementation



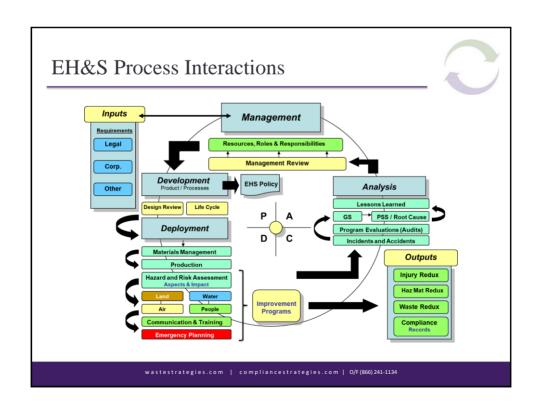
#### For the EH&S Professional

- Lack of involvement at start
- Choosing What to Measure
- Problem Solving Methodology



Q D P C, oh and S

$$5S + 1 = 6S$$



### **EH&S Process Interactions**



#### Play and Picture the Process -

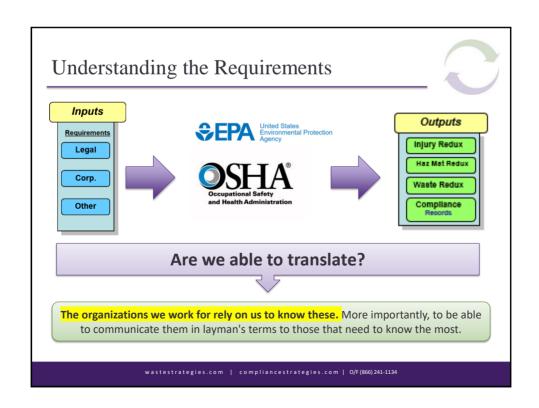
A process map takes the process description to a whole new level of understanding. Where verbal descriptions provide the basis of the process, the map identifies the flow of each event in a process.



#### **Prod the Process** –

"Do we still do that?" or "Why does X happen there?" or "Why are we doing it that way?"





### **Establishing Standards**



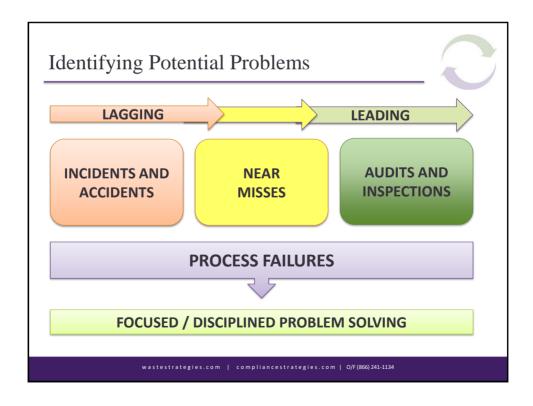
# STANDARDS

WHAT

**Standard Conditions and Behaviors per regulations** is the first step in establishing organizational expectations...and being able to clearly communicate these to the masses who benefit from them, i.e. zero incidents!

HOW

**Standardized Work** is one of the most powerful but least used lean tools. By documenting the current best practice, standardized work forms the baseline for kaizen or continuous improvement. As the standard is improved, the new standard becomes the baseline for further improvements, and so on.



# **Problem Solving**





- Defining the problem correctly
- Using Appropriate Root Cause
  - Five Whys
  - FMEA
  - Fault Tree
  - Fishbone
  - Current Reality Tree

# IS THIS PROCESS WORKING EFFECTIVELY IN YOUR ORGANIZATION?

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WasteStrategies ComplianceStrategies			PROBLEM SOLVING SHEET				
DATEGRADING HEALTH AND SWITTY SCILLINGS	a .						
Issued By:	Dept:	Date:	Fwd To:	Туре (	Circle):	5 Q F	D P C
Where Did the Problem Occur (Ex	ere Did the Problem Occur (Exact Location)?		Corrective and Preventive	Actions	Who	Due	Complet
When Did the Problem Occur (Date and Time)?		1)		T			
Describe the Degree of Loss (Injury, Equipment/Property Damage, Malfunction, etc.)		2)					
Describe the Problem Based on Facts from Your 'Go See' and Information Above:		3)					
Containment Measures Taken?			4)				
1) To Protect Employees or Customer:							
2) To Restore Safe Quality Flow of Product or Material:		** Can We Error Proof? ** Can We Implement One	e Corrective Action Immediately?				
Does the Problem Violate Regulatory Stds or Company Policy: YES NO		Is This PSS Leverageable	Is This PSS Leverageable Across Other Areas: YES NO				
	y 5 Times, Final Why Should be a Tool or M	∧ethod)	Verify the Solution (Visu	ualize Recurrence of the Problem)			
Why?	Because:		$\neg$				
Why?	Because:		Occurrences				
Why?	Because:		90				
Why?	Because:		_	Time			
Why?	Because:		Verification That the PS	Verification That the PSS is Complete:			
		Does it make sense?	Lead Sign Off: Date:			_	

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