

Standard Work and Tools - Management to Drive Continuous Improvement

Front Line Leadership Development Syste. n Module Part 1 of 12

MDI Workshop Agenda

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Day	ject Matter
0-	hop Kick Off
Monday	Introductions. Objectives & Expectations for the Week Value (King on (5S))
Wiomay	Safety SQDC
	via Identification
Tuesday	Defects & Quality Meas. Im Point Kaizett
	Error Proofing
Wednesday	Standard Work
vveunesuay	Training & Change Managemer
Thursday	Abnormality Management
Thurbady	Supervisor (Manager) Standard Work
Friday	Wrap Up
Triday	Team Report

Objectives

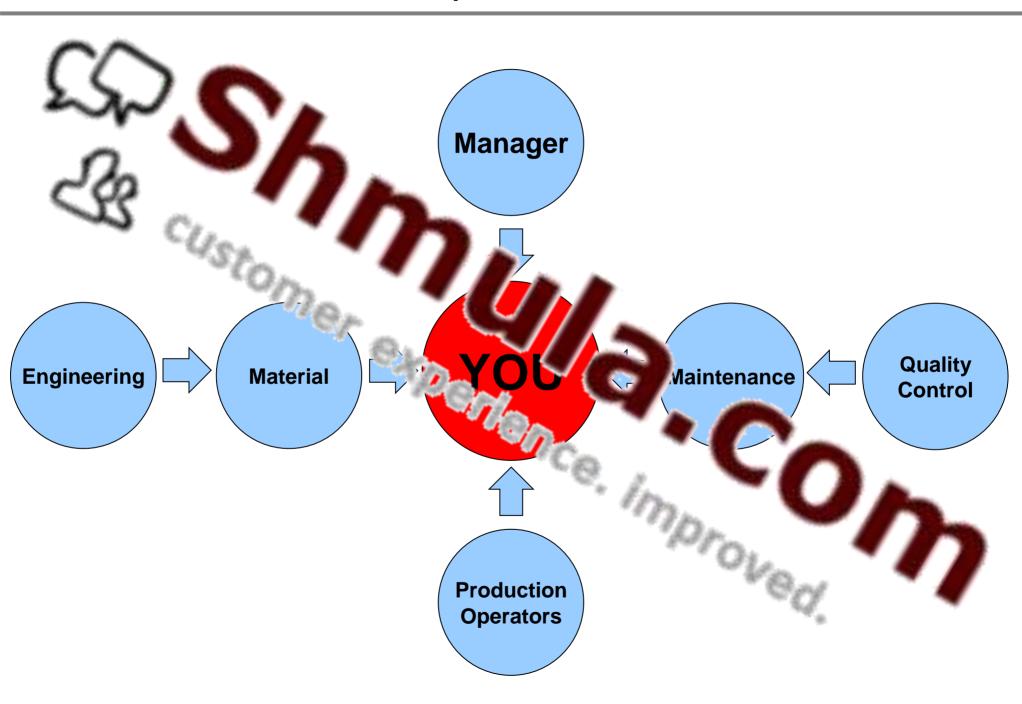
earn the more and techniques you need to implement and sustain importer onts in your work area

Currocus is on day annuous improvement as opposed to "events", sometimes of the to as Kaizen Events.

By the end of this \core k:

- 1. Learn to "See" wastes in your area and systematically reduce or eliminate it daily.
- 2. Identify Relevant Metrics, Design Visua Manage expose those metrics, and begin daily habit of improvement
- 3. Apply many of the tools and practices taught this week

Your Work Relationships



Daily Management?



Daily Management is a fact-based, systematic, all oriented active style of management where principles of Lean Management are applied day a focus on daily activities linking with high of least rategy.

Links team activities to company big picture

Why?

Enables communication with term and chifts

Systematic problem resolution (daily)

YOU – it involves you and makes work meaningful



What is Lean

A Busine Strategy that:

Reduces and lead time in all processes relating to memory product evaluation, production, distribution and audinistration

Improves quality cost and religious of the final product to the customer

Establishes a competitive advantage that will enable sales and profitability to grow

Builds a culture of involvement and manal respective improve enterprise capability and enables continuous improvement

History: The Automatic Loom



THE LOOM was a significant invention because it reacted a mindset that remains a thread throughout the development of Lean.

When hadle broke, the machine topped.

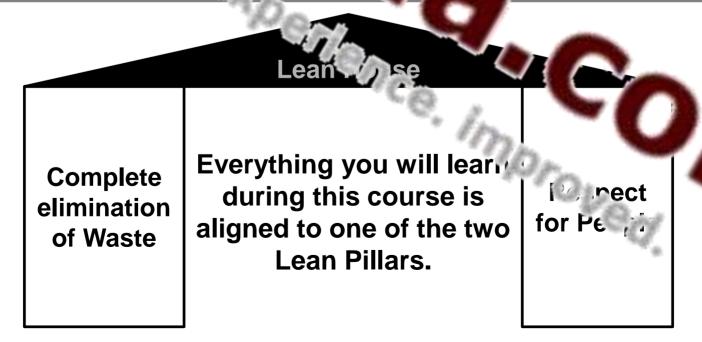
In a 26 this was a ge development and this principle coame one of the man of Lean today.

Today, these principles are knowledge and Ardon.

How the term "Lean" was Coined

The word is a "was coined when a group of MIT researchers visited Loyota and the moticed that Toyota did "Everything with Half of Everything" and space, half the people, half the money, half the atterials by with errifich quality. – the word "Lean" was born.

Lean is better System and Artificially apply the system daily.



The Customer, Value, and Flow



The customer defines value. There are 2 types of customers:

The customer is the *end* customer customer is also the *downstream process* from

Value

ere are 3 types are vities

- 1. Activing that Add 💎 🕖
- 2. Activities and Do Not Activities
- 3. Activities that D. Not Add value, but ye need them right now

Flow

- Perfection: all the steps in y rocess ad al
- Waste: Goal is to identify these, elamate them, an let value flow.
- Necessary Waste: Need to put-up with these (regulatory, reporting)

Activity #1

On a pie exper, draw a line down the middle. Think of a process you remake

On the length, write see ential steps for perfect flow.

On the right side, write the steps at a event perfect flow.

Activity #1 Discussion

- 1. What is not a roose of your process? Why does it exist?
- 2. If the customer were observe your process, what steps would say conside water

Introduction to Lean Principles

Derine Value from Customer Perspective

lentify the Value Stream

Eliminate Wast

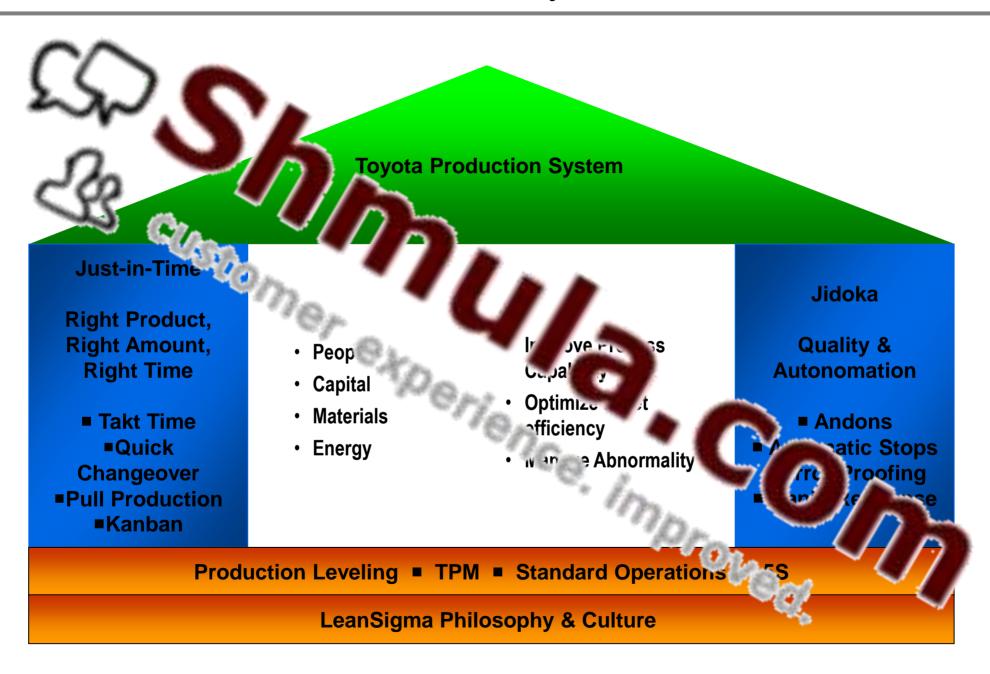
Fwarrocess

Pull the Product

Involve & Empower Employees

Pursue to Perfection

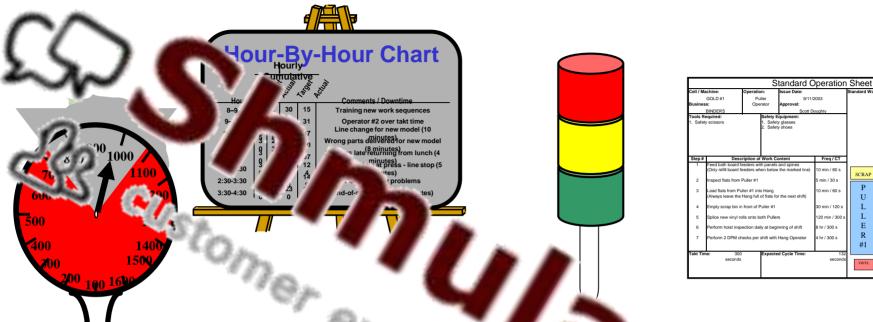
House of Lean Production System

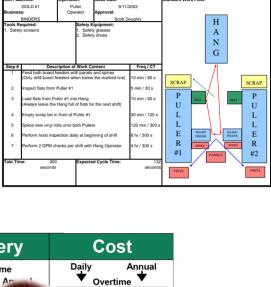


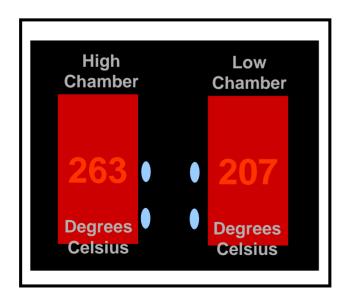
Jidoka is...

- Fuilding Sity (mistake proofing) into the process and/or activity
 - ¬ Six કાંકુ*ા∂ ા*µ bility
 - Specification is a specific to the specific property in the specific property is a specific property of the specific property in the specific property is a specific property of the specific property in the specific property is a specific property of the specific property in the specific property in the specific property is a specific property of the specific property in the specific property is a specific property of the specific property in the specific property is a specific property of the specific property in the specific property in the specific property is a specific property of the specific property in the
- Equipment autor mation
 - Capable machine concesses to at the le separation of machine and operator
 - Capable of detecting abnormalities and smalling pherators before defects or stoppages occur
- Visual Control
 - Immediate response to abnormal conditions
 - Prevent the accumulation of defective product and passing it on to the next process

Visual Workplace

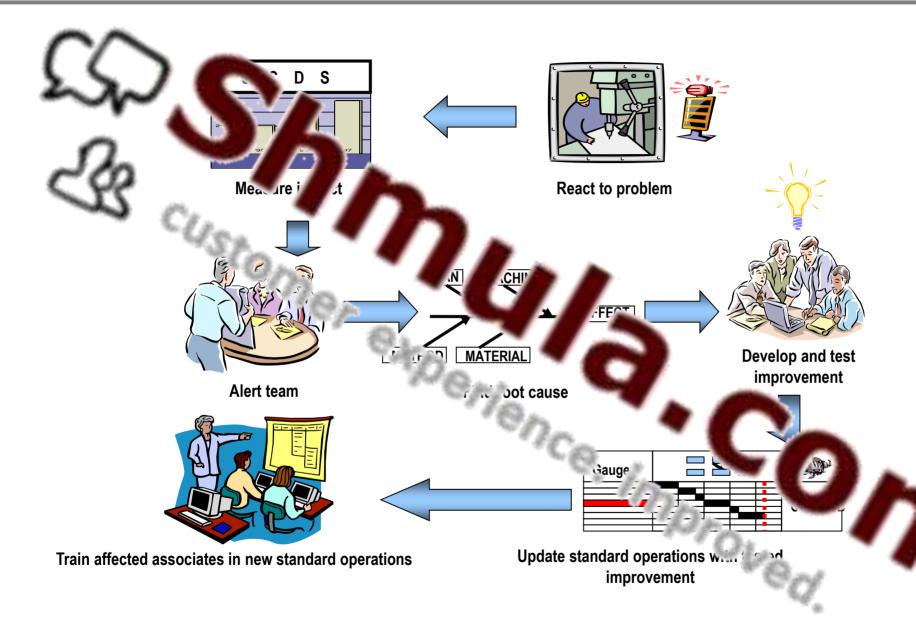




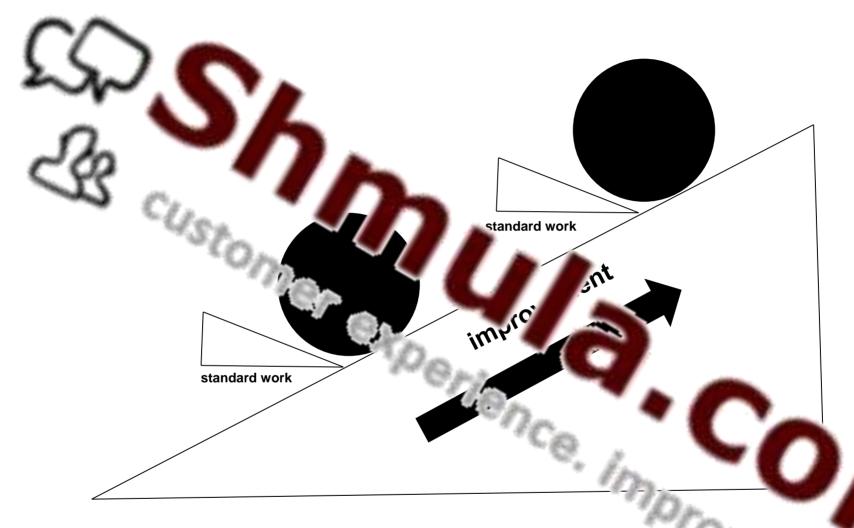




Abnormality Response & Reaction



Improving Quality

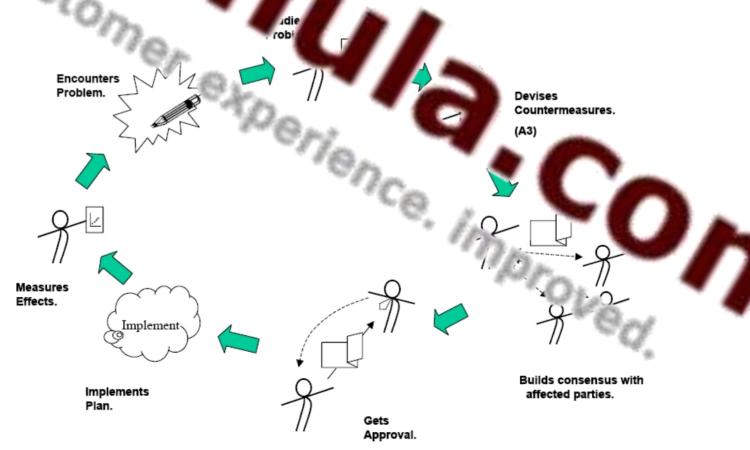


- 1. Standards are the basis for comparison (before lefter)
- 2. With no standard, can't objectively tell what has unnged or what has improved

Continuous Improvement Cycle

Plan → Do → Check → Act

- Plan: Identify & Eliminate Waste
- Do: every and Deploy Improvements
 - Meck: As some overnents & Confirm Results
- Act: Standard / Sociated Processes & Procedures



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Lean Progression (1)

JIT								
Cate vrv		Takt T		Material Flow	Pull Standard Ops		Setup Reduction	Material Replenishment
	7	T/ unknown	No stanoard routings	Mi ∽dat th pei s culin is	MRP driven (nush)	Undefined	Greater than 30 minutes	Large batch, variable delivery, EOQ driven
	2	T/T known, but not achieved	Standaro routings by process	M/H with one जाने हों⊅ stored in s	. ull in plant	rfined, not ed	10 minutes	Product packaged in daily quantities
	3	Work completed within T/T	Standard routings by product	S'markets with water spiders kitting	Supp!i . pull	Defined &	g gits	Daily quantities delivered to c demand
	4	Optimum productivity at T/T	Integration from supplier to the customer	Mtl delivered in kits from suppliers direct to operators	Build based on customer demand	Reviewed & kaizened frequently	zero s p, zero zero adjustments	Mtl reseiv/ kit containers with daily deliveries to customer demand

Lean Progression (2)

ka			Production Smoothing					
Category	Det. On (Quality)	Aation od₁ /ity\	Production Planning	Visual Control	Cross-Trained Associates	Continuous Improvement Culture		
1	Undetected	Machine operator dependant	exr .e d	No visual controls	1 person 1 process	No program		
2	Manually detect	Opera start, stop, and monitor machines	Reliac weekly schedule	ne r surce no lea in	Some ability to rotate on like operations (classifications)	Program in place, but not unified (flavor of the month)		
3	Auto detect	Operators react to machine andons and TPM is in place	Reliable biweekly schedule	Hourly acting on structgic measures or some lines	Cros rained for all process with-in a group	Ur d program, but r eir etained		
4	Prediction of problems	Operators monitor critical attributes from a distance, "Lights out"	Reliable monthly schedule	Plant-wide & aligned using policy deployment	Cross-trained for all processes on the line	All employee accountable for program		

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Pete Abilla at shmula.com
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