

# Kaizen Workshop

Introduction

# Agenda – 4 day event



### 1. Day 1

- a.m. measure the current situation
- p.m. ideas & plan for a new situation

#### 2. Day 2

- a.m. design new situation
- p.m. make some changes

# 3. Day 3

- a.m. make some changes
- p.m. record the new situation

#### 4. Day 4

- a.m. complete action plan
- presentation

# Agenda – 3 day event



#### 1. Day 1

- a.m. measure the current situation
- p.m. ideas & plan for a new situation

#### 2. Day 2

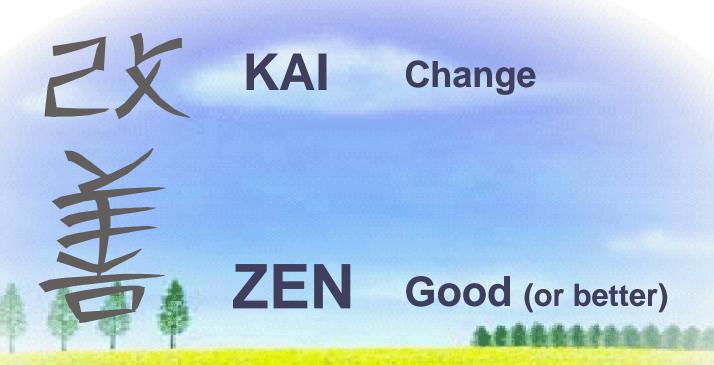
- a.m. design new situation
- p.m. make some changes

# 3. Day 3

- a.m. Measure and record the new situation
- presentation

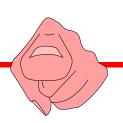
# What is KAIZEN?





KAIZEN - Continuous improvement Elimination of waste

# 10 Ground Rules for Kaizen





- 1. Don't try to justify the past challenge fixed ideas
- 2. Be positive think how things CAN be done not why they CAN'T be done
- 3. Use data, not pet theories
- 4. Use wisdom not money
- Work smarter not harder.
- 6. Set high standards
- 7. Correct failures immediately 70% now is better than 100% never
- 8. Lead by example
- 9. A team is better than 1 expert involve people
- 10. Identify the root cause





# Traditional Method vs Kaizen





# Contents of an Operation



#### Value Added Work

The part of the job the customer wants to pay for



#### Hidden Waste

Work that does not add value but is necessary under the current operating conditions



#### **Obvious Waste**

Work that does not add value and is not necessary

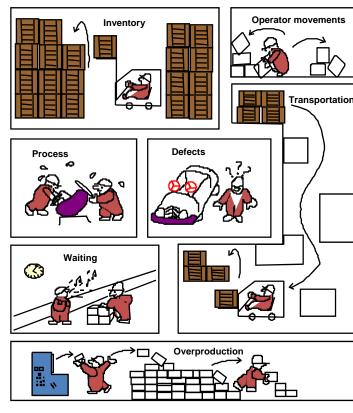


## What is Obvious Waste?



# Work that does not add value and is not necessary.

- 1. Overproduction
- 2. Waiting
- 3. Transportation
- 4. Process
- 5. Inventory
- 6. Operator Movements
- 7. Defects

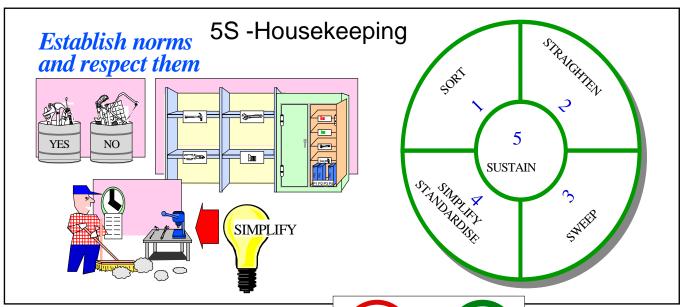


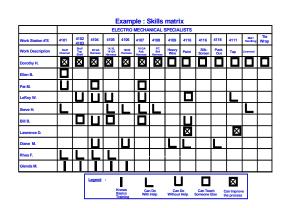
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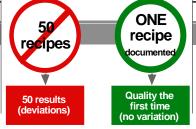
# Eliminate these activities

# Workplace Organisation

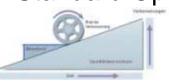


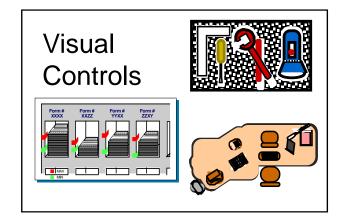






Standard Ops.

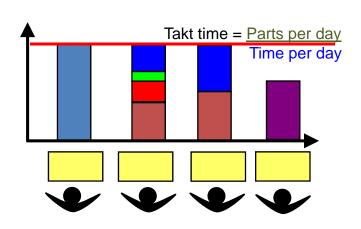


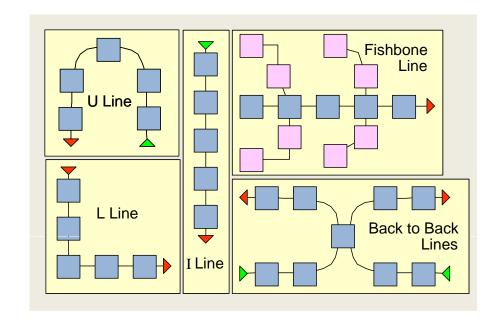


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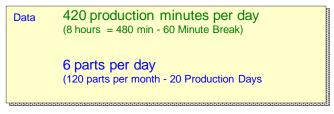
# WorkFlow – line balancing



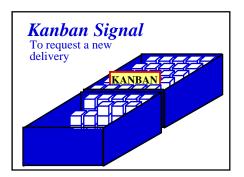




# Time per day Parts per day



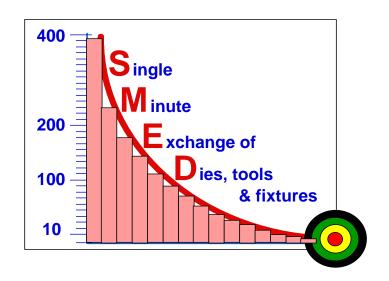




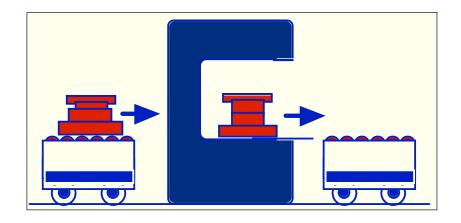
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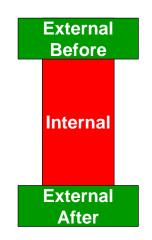
# SMED - Quick Tool Changeovers

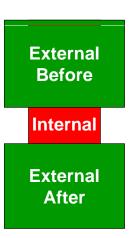






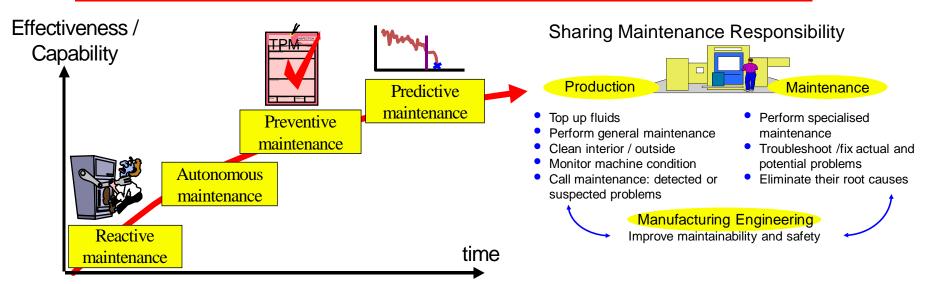


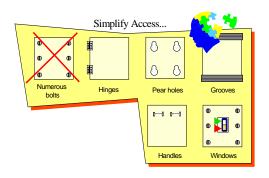


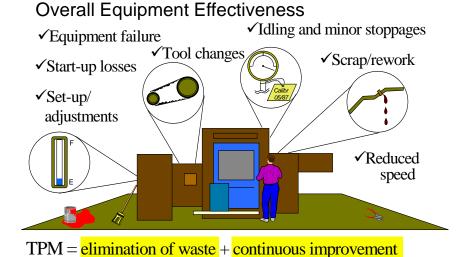


## **Total Preventative Maintenance**











PARAMETERS	UNITS	BEFORE	AFTER	IMPV'T	REMARKS
House Keeping Score	%				
Ergonomics	%				
Quality	ppm				
Number of Parts in Process					
Floor Space	$M^2$				
Travel Distance (Mat'l)	М				
Travel Distance (Man)	М				
Number of people (all shifts)					
Productivity					
Production Lead Time					
Value Added/Total	%				
TPE	%				
Bottleneck Process Time					
Set-up time (last to first)					
Number of Error Proofs					