

Dumping the 8 Wastes Using Technology

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Welcome

~30 years in a variety of industries

- Manufacturing, healthcare, distribution, construction, technology

Baptized in LEAN at ABB and Wyco Tool

- Made equipment and tools for electrical, hvac and concrete industries

Currently lead Penta Technologies

- ERP, Labor Productivity, Cloud Payroll for Construction...
- ... and ONLY Construction





The 8 Types of Waste in LEAN

1. Defects
 - 'Bad' Estimating, Poor Quality, Safety Incidences, Plan Collisions
2. Excess / Non-Value-Added Processing
 - Poor Communication, Data Duplication, Reporting that is not Reviewed
3. Overproduction
 - Raw Material and Tool Management, Uneven WIP across the Job
4. Waiting
 - Project Delays, Missed Milestones, Difficulties Collaborating
5. Inventory
 - Write-downs, Too Many Warehouses, Lack of VMI Agreements
6. Transportation
 - Truck Rolls, Delivery Charges, Rush Fees
7. Motion
 - Elevator Rides, Truck Rolls, Back Office Inefficiencies, 'Pushing Paper' into Technology
8. Non-Utilized Talent
 - Trade Level Variances, 40 Hour Week Variances

LEAN Tools You Can Use... Today

Genchi Genbutsu – The ‘Place Where It Happens’

- Go See Yourself
- “Getcha Boots On”

Kaizen – Improvement

- Plan > Do > Check > Act
- Small improvements can add up to big cultural changes

Poka Yoke - “Mistake Proofing”

- Contact, Fixed Value, and Motion Step
- Don’t let the errors happen in the first place



Defects

Defects

What to Look For in Your Business

- 'Bad' Estimating, Poor Quality, Safety Incidences, Plan Collisions

Examples of Tech Tools That Can Help

- BIM, Estimating Tools, Safety Reporting, AR/VR

Non-Value-Added Processing



Excess / Non-Value-Added Processing

What to Look For in Your Business

- Poor Communication, Data Duplication, Reporting that is not Reviewed

Examples of Tech Tools That Can Help

- ERP Systems, Jobsite 'Data Vacuums', PowerBI



Overproduction

Overproduction

What to Look For in Your Business

- Raw Material and Tool Management, Uneven WIP across the Job, Schedule Misalignments

Examples of Tech Tools That Can Help

- Supply Chain Software, Accounts Payable Solutions for the Field, Jobsite 'Data Vacuums'

Waiting



Waiting

What to Look For in Your Business

- Project Delays, Missed Milestones, Difficulties Collaborating, Project 'Crunch'

Examples of Tech Tools That Can Help

- Project Management Software, Digital Collaboration Tools, Cloud Document Sharing Tools



Inventory

Inventory

What to Look For in Your Business

- Write-downs, Too Many Warehouses, Lack of VMI Agreements, You Need to Store Unused/Unnecessary Equipment

Examples of Tech Tools That Can Help

- Warehouse/Asset Management Software, ERP Systems, Accounts Payable Tools, Vendor Scorecards

Transportation



Transportation

What to Look For in Your Business

- Truck Rolls, Delivery Charges, Rush Fees

Examples of Tech Tools That Can Help

- Service Management Tools, Supply Chain Management Tools, ERP Systems, Short Interval Scheduling Tools

Motion



Motion

What to Look For in Your Business

- Elevator Rides, Truck Rolls, Back Office Inefficiencies, 'Pushing Paper' into Technology

Examples of Tech Tools That Can Help

- Cell Phones (Step Counters/GPS tracking), OCR, Integrations



Non Utilized Talent

Non-Utilized Talent

What to Look For in Your Business

- Trade Level Variances, 40 Hour Week Variances

Examples of Tech Tools That Can Help

- Labor Productivity Software, Labor Planning Software, HRIS

How to Get Moving

- Get Out of Your Office and Get to the Gemba
- Focus on Business Problems, NOT Technology Solutions
- ALWAYS Tie Your Technology Back to the Problem
- Hold Your Vendors Accountable