

Process Raised By The Power of People



The P² Team

Assessment

Implementation

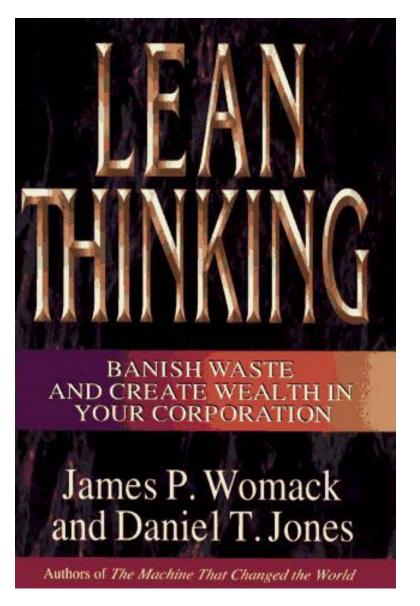
Training

Coaching

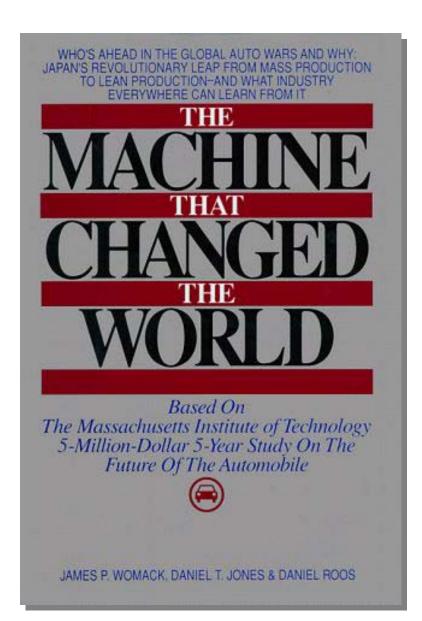




Process raised by the power of people Process Raised by the Power of People





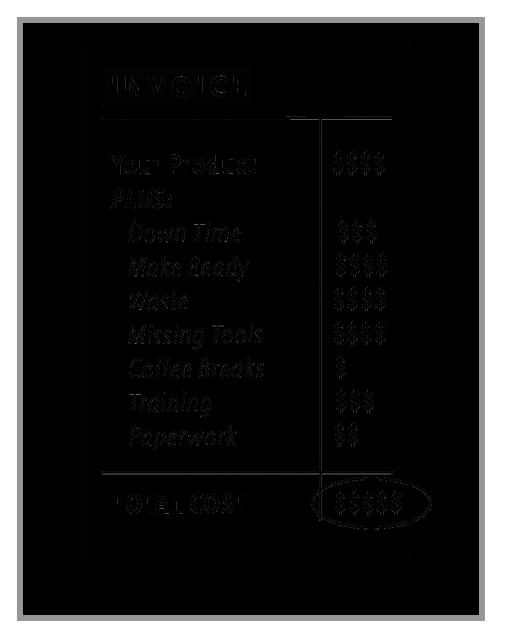




Lean Manufacturing

Production of goods and services without waste

Waste: Anything your customer would not gladly pay for, were you to bill them for it separately





Profit



Cost

Price



Price



Price



Price



Process raised by the power of people

Ideals of Lean

Value: Provide what the customer wants

Value Stream: Order to Cash without waste of resources

Flow: Moves thru the system without constraint

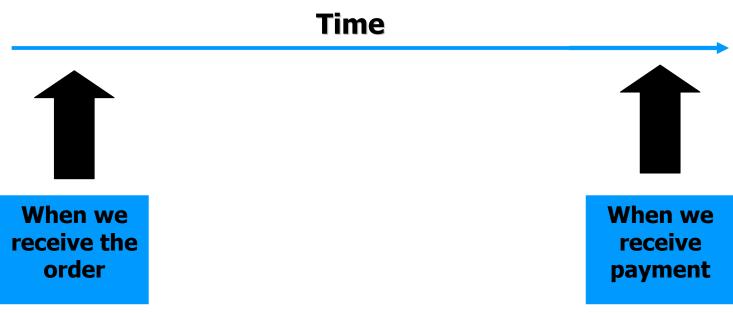
Pull: Produced at the speed of customer demand

Perfection: Continual Improvement



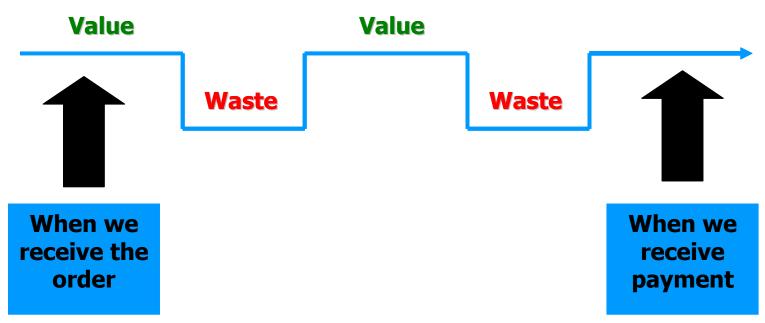
The Practice

Toyota's Simple Picture





The Value Stream





Declare War on Waste

Waste is a symptom - not the root cause

Waste points to problems within the Value stream

Classifications of waste

Administration

Order to Cash

Production Floor

Raw Material to Finished Product





Relentless pursuit of waste Office Environment

- 1. **Errors** in service transaction, defects, goods
- 2. Delays on the part of the customer, queues, response
- 3. Duplication re-entering data, copy information, re-enter data
- 4. Unnecessary movement queue several times, lack of one stop
- 5. Unclear communication need to ask more than once
- 6. Incorrect inventory out of stock, substitution
- 7. Opportunity lost to win new customers, loosing existing customers, ignoring customers



7 service wastes described by John Bicheno

Relentless pursuit of waste Production Floor

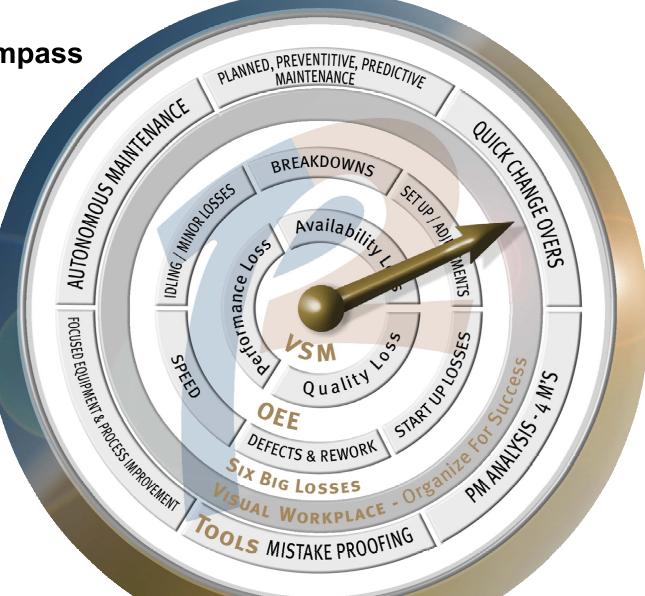
- Over Production
- 2. Waiting
- 3. Conveyance (moving more than once)
- 4. Processing
- 5. Inventory
- 6. Motion
- 7. Processing Failures (rework)
- 8. Administration (conflicting information)
- 9. Abuse of Technology (overuse)
- 10. Creativity
- 11. Space





The Lean Compass

Follow the Data to the Right Tool





Senior Toyota Executive...

 "We get brilliant results from average people managing brilliant processes"

"We observe that our competitors often get average (or worse) results from brilliant people managing broken processes"



Case Study: Benefits of Lean

Internal Benefits to the FPPA Member

Benefits to their Customers

Lasting Partnership with Customers



Lean Champion Training

Fox Valley Technical College

May 2006



Printing & Packaging Professionals

Learning & Applying Lean Tools





Lean Champion Training Fox Valley Technical College May 2006





Hands-On Application at FVTC







Lean Champion Training
Fox Valley Technical College
May 2006



Meeting and Sharing Best Practices with Lean Champions From Around the World







Lean Champion Training
Fox Valley Technical College
May 2006



Tours of Lean Plants

And those that want to be Lean ...







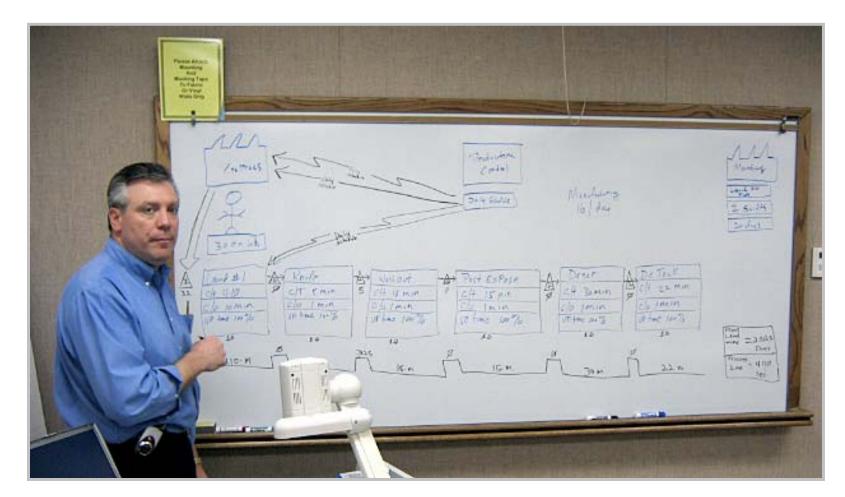


Participated in Training & Hosted a Tour





Value Stream Mapping

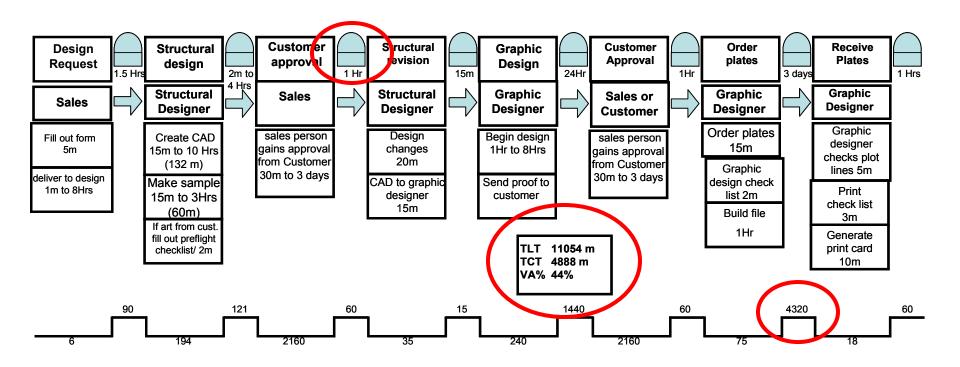


Value Stream Mapping Of:

1. All the Steps & Processes

2. All the wait times

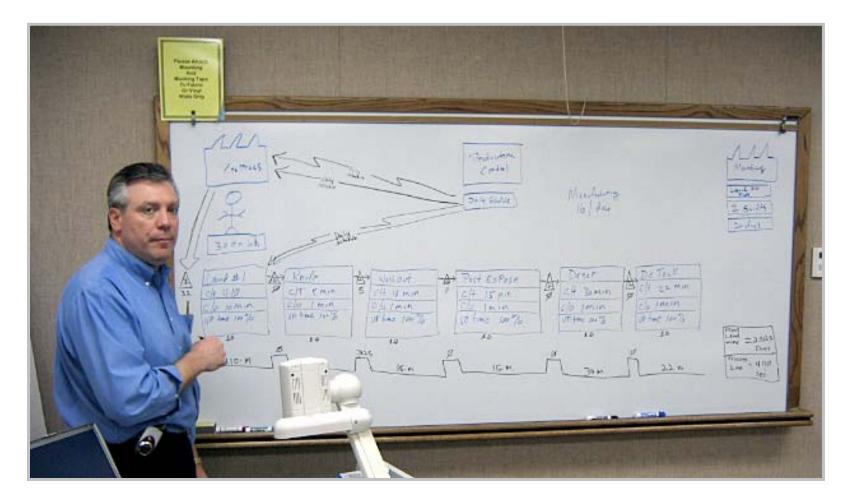
3. The Value Ratio





4. The Bottlenecks

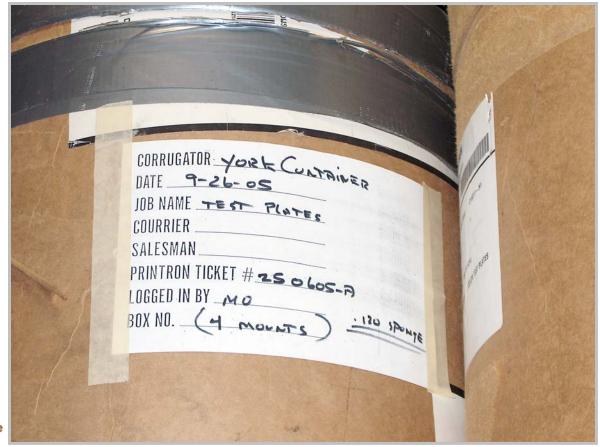
Value Stream Mapping



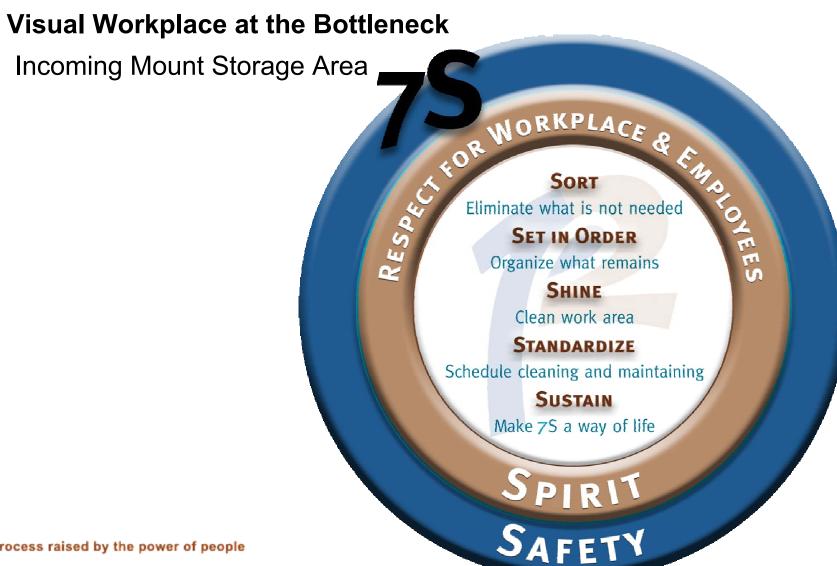
Visual Workplace at the Bottleneck

Incoming Mount Storage Area

- Disorganized
- Too Much Look Time
- Customer Risk
- Unwanted Job









Visual Workplace at the Bottleneck

Incoming Mount Storage Area

Workplace Plan

a working document capturing the goals and the progress being made in the improvement process





Visual Workplace at the Bottleneck

Incoming Mount Storage Area





Old Mount Storage Process

- Record in coming mount on log sheet found inside the mount log book. (See attached).
- 2. Tape a copy of the form on the mount tube.

3. Move tube in the storage area.

Old FORM

Date: 6-14-06

Corrugator: MCN

Job Description:

Logo:

Box Number:

Ticket Number: 236 730

Number of Mounts: 2

Backing: 67.030

Plate Material: . 250 LIG

Platemaker: Prontron

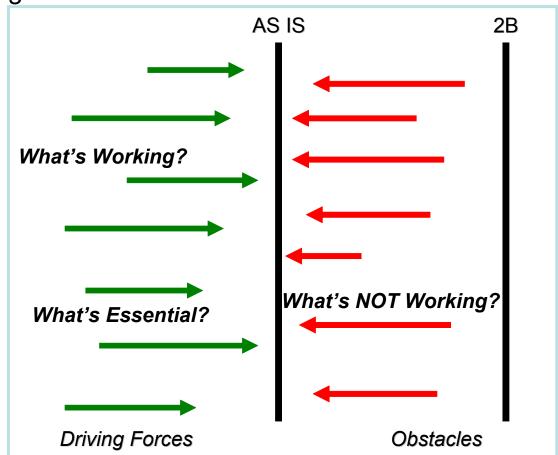
Other Information:



Visual Workplace at the Bottleneck

Incoming Mount Storage Area

Force Field





Visual Workplace at the Bottleneck

Incoming Mount Storage Area

•What is working?

•What is not working?

•What parts of the process are essential?



Force Field

AS IS Questions

- 1. What is working?
 - We are recording incoming mounts that arrive in our building.
- 2. What is not working?
 - Mounts that are checked in are stored unorganized.
 - It takes too long to find what you are looking for.
 - The whole storage area is too confusing.
 - We are not capturing enough useful information in the check in process.
 - People have to leave their work area and look in the log book to see if a
 mount is checked in. This takes too much time.
- 3. What items are essential to us?
 - Easy access to look up information by everyone.
 - Be able to look up information right at their desk or at any computer.
 - We want a clean organized area.
 - We want to save time in the process.

Visual Workplace at the Bottleneck

Incoming Mount Storage Area

- All participants assigned tasks & due dates
- •All participants build a vision of the Future State
- •All participants recognized

Task List

- 1. Move all mounts out of the existing area.
- 2. Move all current inventory out of the existing area.
- 3. Scrub concrete clean.
- 4. Move inventory to new location.
- 5. Paint box square and numbers on concrete.
- 6. Redesign incoming mount log sheet.
- 7. I.T. department to make a new shared folder on server to store new mount log form. This will be a read only file but viewed by everyone.
- 8. Define who will be responsible for filling out form for mounts that come in.
- 9. Purchase plastic sleeves to hold log document. The sleeve will be attached to the mounting tube.
- 10. Communicate new process to sales/customer service/mounting departments.



Visual Workplace at the Bottleneck

Incoming Mount Storage Area

"You wouldn't believe the excitement that this new process created. It is now simple, quick and easy to find a mount"

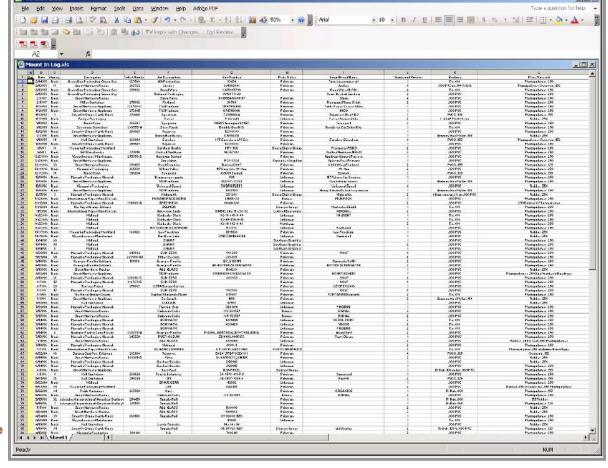




Visual Workplace at the Bottleneck

Incoming Mount Storage Area

"The best part; anyone can look up this information without leaving their desk using the new mount log form"





Visual Workplace at the Bottleneck

Incoming Mount Storage Area

"The new mount form has much more information on it including the floor storage number. We have it on a server and it is a shared document in a read only format. Awesome!"





Visual Workplace at the Bottleneck

Incoming Mount Storage Area

Cost Reduction

- •Labor savings per mount of at least 10 minutes.
- •The number of times per day of looking for a mount is 20 times.
- •3.3 hours per day.16.6 hours per week.





Visual Workplace at the Bottleneck

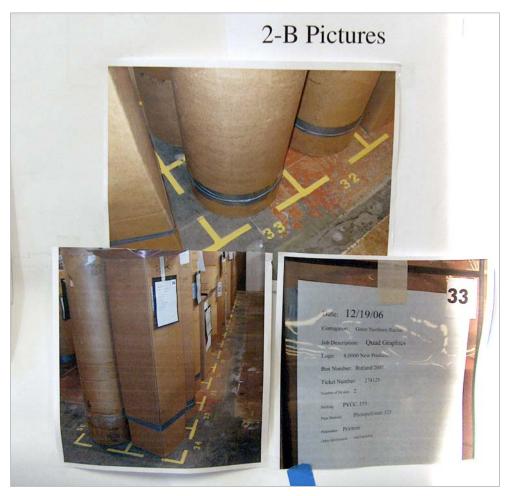
Incoming Mount Storage Area

Cost Reduction

•16.6 hours times an average of \$15.00/hr. = \$249.00 per week.

Annual savings of \$12,948





Visual Workplace for Safety While we are working on it...

- 450 bolloway "ten" steel backing for use on magnetic cylinders on press
- Steel stored on shelf
- Two big guys
- •Slit off sheets and put them back on the shelf





Visual Workplace for Safety While we are working on it...

The New Way

This siled has saled has saled not be rolled out effortlessly





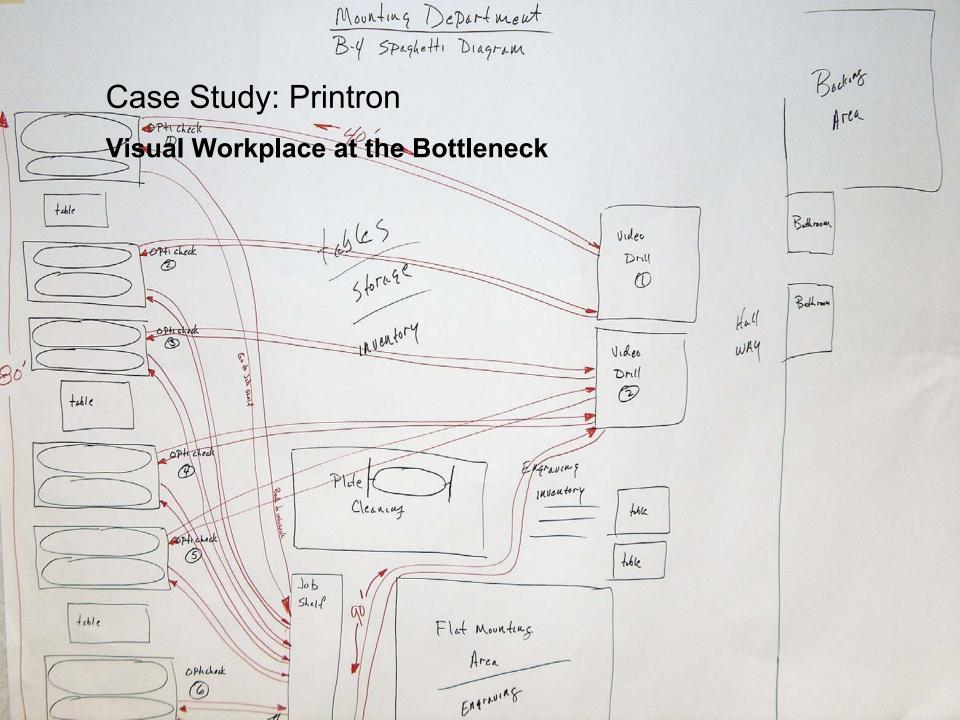
Visual Workplace at the Bottleneck

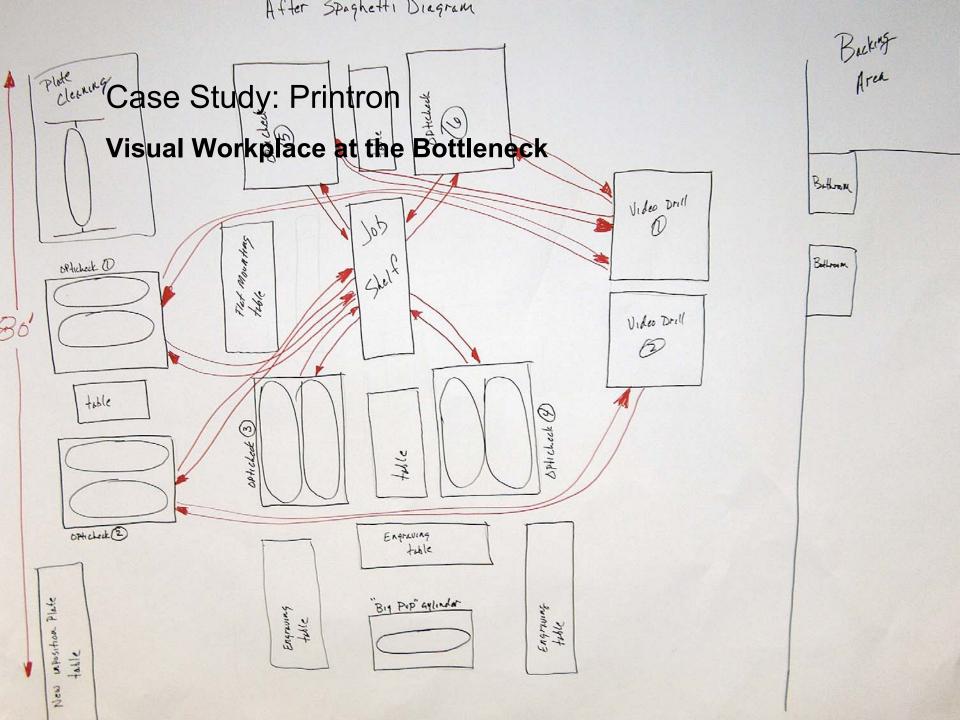
Mounting Department

- •Opti-checks were on one side of the room in a row.
- Job shelf was on the other side of the room













Participated in Training & Hosted a Tour

Small investment of Time & Dollars....

- Improved employee ownership & buy-in
- Improved safety
- Less waste of motion, time, & hassle
- Savings of at least \$20,000

Experience Printron can use with customers..... Priceless!



Consultative Sales

Customer wants a better mouse trap!



- •Help customers understand their problems, issues, and opportunities...and to arrive at new and better solutions...than they would have discovered on their own
- •To act as an advocate within the supplier organization, ensuring the timely allocation of resources to deliver customized or unique solutions that meet the customer's needs
- •Sales function is best performed by Sales people trained as problem solving professionals



Become Irreplaceable!

- Lean expert Sales people become a resource to their customers
- •Requires that supplier go Lean first!





Lean Supply

- Assist with organization& purge process
- ✓ Identify obsolete tooling
- **✓ Date your tools**





Train internal pre press personnel & operators in best practices







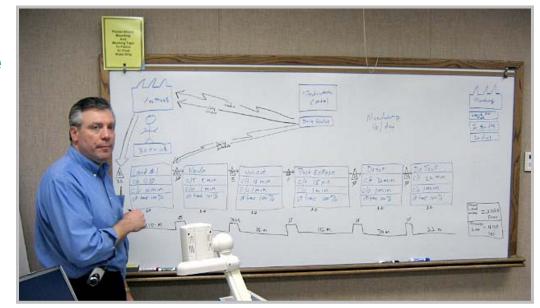
One Cart One Job



Value Stream Map your customer's experience

Lean Supply

- •Speed!
- **✓ Decrease distance**
- **✓ Decrease turnaround Time**











As a Lean Supplier the goal is to become irreplaceable!





We must all do more with Less





Process Raised By The Power of People



