Cleanliness & Orderliness



The average person spends <u>30 seconds</u> looking for something <u>for every five minutes</u> they spend working.

That adds up to nearly 45 minutes out of every eight-hour shift.

So, Housekeeping is important!

Let's talk about taking Housekeeping ...

5S vs Housekeeping



This deck will ...

 Establish some terms and concepts for thinking about Housekeeping

 Take the concept of mere Housekeeping to a whole new level (5S)

Housekeeping – 3 Terms



Think about the last time you cleaned a closet ... what steps did you use?

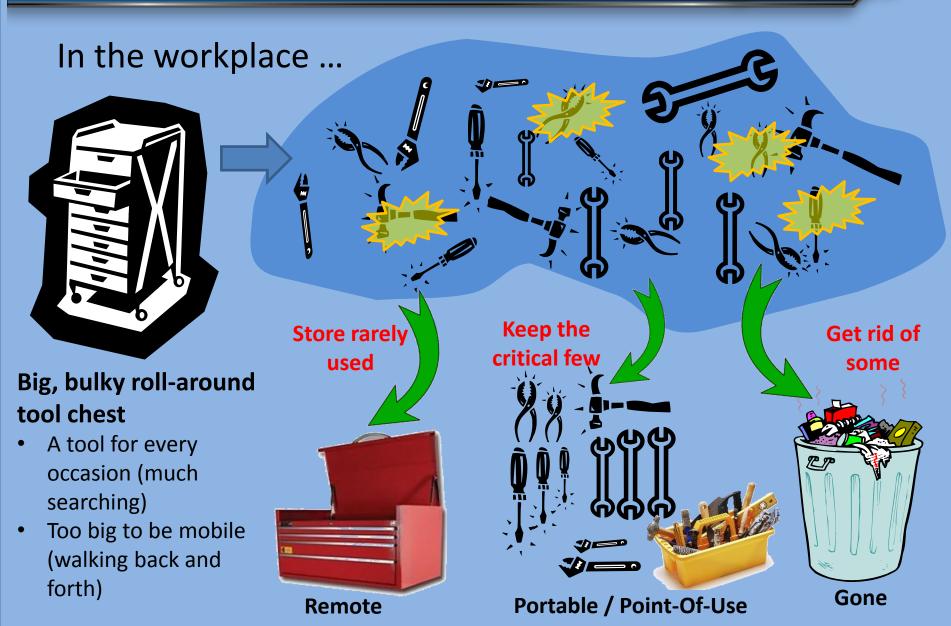
- Sort
 - You pulled everything out and sorted it into piles.
 - Stuff I'm keeping, stuff I'm giving away or putting somewhere else, and stuff I'm putting into the trash
- Shine
 - Before re-loading the closet, you took the opportunity to clean and maybe even paint.
- **S**et
 - Now that you have less stuff, you could design proper storage.
 - Maybe create or install new hooks, bins, shelves, etc to better organize it
 - Finally, you started putting your 'keep' pile back into the closet, in a logical manner.





Housekeeping - SORT





Tips for SORT



FEAR causes us to keep stuff

"I think we can live without this, but ...

- I may not be authorized to trash it."
- Someone else might feel differently about it."
- As soon as I throw it out, we'll need it!"
- I'm not even sure what this is."

Use a **5S Holding Bin** to overcome **fear**

- Think of it like a "Trial separation"
 - · See if you can live without it
 - See if others want to keep it
- Rule #1: Must have a proper place to store an item before you can remove it from the bin
- Rule#2: If no one claims it, then get rid of it!

SORT – 5S Holding Bin





5S HOLDING BIN

Think of this process like a 'trial separation'.

Put stuff here to test if you (and others) can live without it.

All items remaining >30 days will be removed.

You may put stuff IN

You <u>may</u> take stuff OUT

SORT

5/31/2015

5/31/2015

Joe George

Tag it!

Attach a wire tag

Add a date

Add your name

• Tell us something ...

• What is it?

• Is it obsolete?

• Is it still good?

 Do we have too much of it, already? You <u>should</u>
periodically look
to see what
others are
adding.

Stack it NEATLY.
No obvious

garbage!

RULES for removing:

SET

If you want/need a part ...

- 1. You <u>MUST</u> develop a plan for proper storage
- 2. Write a brief note on the tag explaining your rationale for keeping it
- 3. Turn the tag in to Dave Burford

Housekeeping - SET



Tidying-Up = HIDING something SET = Taking it 'HOME'

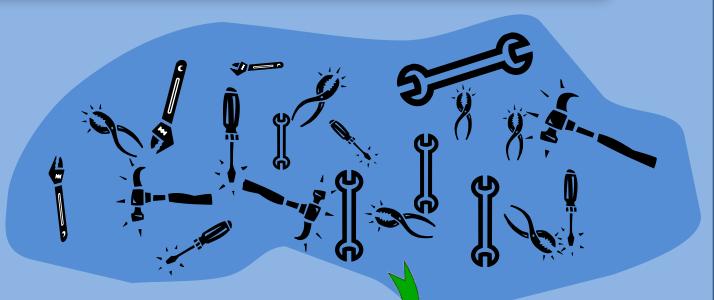
- Stuff gets left out because we are delaying the difficult decision of what to do with it
- SET means everything already has a designated place (its *home*)
 - Makes the decision easier

Housekeeping - SET



Too many things to organize

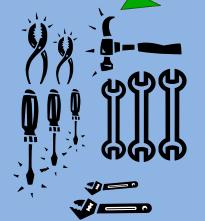
 How can we possibly designate specific spots for so much stuff?



SORT enables SET

- There is a cost to everything you keep
- If you keep it, you have to manage it!

Keep the critical few



A reasonable amount

 We can manage this many.

Housekeeping - SHINE



Broken Window Theory



A single broken window, not repaired ...



Invites more rocks to be thrown ...



Which invites graffiti ...



Which requires trespassing ...



Eventually leading to vandalism and arson ...



Spreading to other buildings (Urban Decay) ...



And eventually, crime waves and police states.

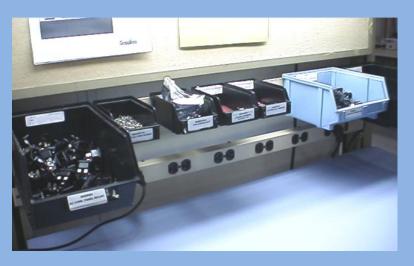
Housekeeping - SHINE



- Declutter and clean to avoid the "Messy Shop Theory" / "Messy Office Theory"
 - Make everything spic-and-span



How bad would you feel about leaving a tool out on this work station?



How about now?

Housekeeping - SHINE



- Keep it organized and clean to avoid the "Messy Shop Theory" / "Messy Office Theory"
 - Make it easy to clean by removing obstacles



How long would it take to wipe the dust from this work station?



How about now?











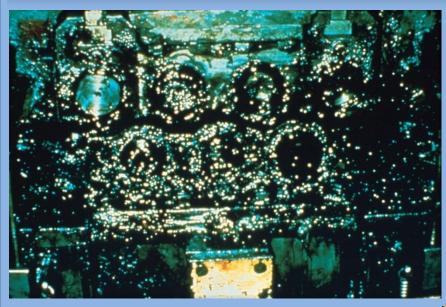


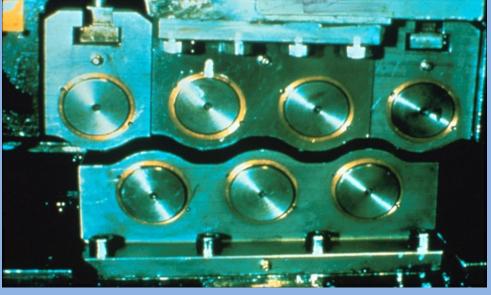












A 5S Work Station





- No tabletop clutter
- Landing Zones
- •Elevated cables/wires

After Housekeeping



Question:

 After the last time you cleaned and organized your closet, how long did it last?

 Did it fall back into disorder because other people also use your closet (and perhaps did not respect your work)?

After Housekeeping



Traditional method of keeping an area clean ...

IF I'VE TOLD YOU ONCE, I'VE TOLD YOU 100 TIMES!

KEEP THIS PLACE STRAIGHTENED UP OR ELSE!

DO YOU LIVE LIKE THIS AT HOME? WHY DON'T YOU HAVE SOME PRIDE?



How is this MY fault? I clean up my stuff, but nobody else cares ...

There must be a better way ...

What is 5S?



5S = Housekeeping + Controls

Clean and Organize

+

Behavior

S = SORT

S = SET

S = SHINE

S = STANDARDIZE

S = SUSTAIN

We keep on-hand only what we need.

Everything has its place and is in its place.

Everything shines like new. Order is apparent.

5S is part of the daily routine. Compliance.

5S thinking is a habit and way-of-life.





STANDARDIZE



Standardize is about putting controls in place to ...

- Communicate the expectation
- Guide the behavior of others

Controls should be ...

- Intuitive others will automatically know what to do without being directly told
- Passive Make doing the correct thing the easy thing to do (or, make doing the wrong thing difficult)
 - You can't be there all the time to police the situation
 - People take the path of least resistance.

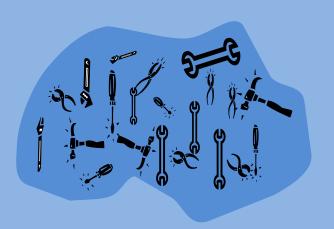
Evolution of STANDARDIZE



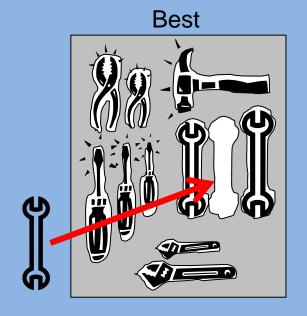
Make doing the 'right thing' easy to do.

Tools should be <u>easy to retrieve</u> and <u>easy to return</u>.

Bad







Too Many

Little or no apparent organization

Critical Few

- Only have to control the critical few
- No indication of where each tool belongs

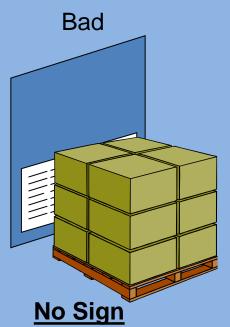
<u>Critical Few + Controls</u>

- No need for words; the picture instantly communicates the expectation
- An empty space begs to be filled.

Evolution of STANDARDIZE

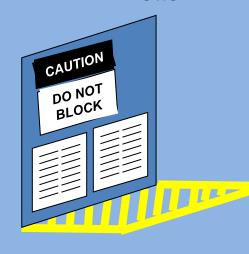


Communicate the Expectation.



- Pallet blocks heat vents
- No labels to tell users what is expected





Better



Graffiti

- Communicates a need
- Hand written labels
 - Legibility?
 - Clarity?
 - Encourages other (non-productive) graffiti

Signs

- Clear
- Eye-catching
- Does not tell why

Prevention

Make it impossible not to comply

Examples of STANDARDIZE



Communicate expectations





How much material is required here?

Where do these pallets belong?

Examples of STANDARDIZE



Bad



Good



Better



Best



No Sorting

- Sloppy
- All trash treated as one

Sorting

- Sort as you go
- Hand written labels
 - Legibility?
 - Clarity?
 - Encourages other (non-productive) graffiti

Labels

- Clear, eyecatching labels
- But where do cans go?

Color Coding

- No need to read text; just memorize a few colors
- Match cans to colored circles on the floor

SUSTAIN (the 5th S)



Sustain is about making sure that the <u>5S routine</u> becomes *habitual*



- Slogans, banners
- Clear, shiny aisle ways
- Color coded areas

The keys to Sustain are ...

- Exposing the anomalies
- Exposing non-compliance

SUSTAIN



Until everyone fully embraces 5S, Housekeeping will need human intervention and oversight

 Zone Champions monitor their areas and evaluate the effectiveness of 5S controls





Example:

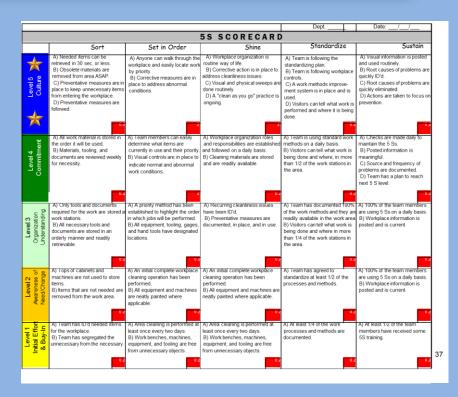
- Zone Champion pictures attached by velcro for easy rotation of assignments.
- Pictures highlight the key expectations

SUSTAINING Audit



The most basic form of Sustaining is the 5S Audit





Though auditing may be required (especially at first), it is also the most costly and least effective means of Sustaining a 5S system

Let's look at some better ways.



Tidying-Up = HIDING something 5S (Sustain) = Exposing



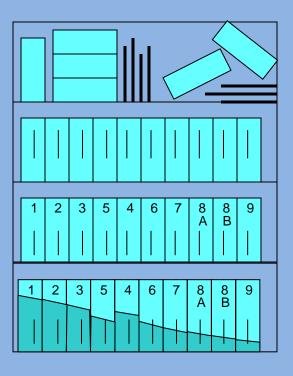
Doors removed for easy inspection ...

- At-a-glance
- From a distance



Expose the Underlying Order

Binders on a Shelf



YUCK: Some without binders. No apparent

order. At least they are on a shelf!

GOOD: Everything is in a binder, labeled, and

neatly arranged on a shelf Are any binders out of order? Who can tell?

BETTER: Binders are numbered

Did you notice that binders 4 and 5 are out of order?

BEST: Visual indication of order

Binders 4 and 5 are obviously out of order?



Are any tools missing from this toolbox?





Are any tools missing from this shadow box?

Which version tells you a tool is missing BEFORE you actually need it?



Real-life example of Shadowboxes



Nice first try!

- Note the space between the top of the tools and the top of the drawer
 - Why might this be bad?



Revision

- Note: no gap above tools
 - Now people cannot pile stuff on top of the tools and foam
 - = Easier to Sustain!

5S is a Journey







Just get started.



If you persevere, it will come.

Start small. Learn as you go.



