GETTING STARTED WITH 5S

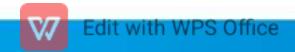
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Pharmacy, Atreya Health Shop as well as Atreya Concepts





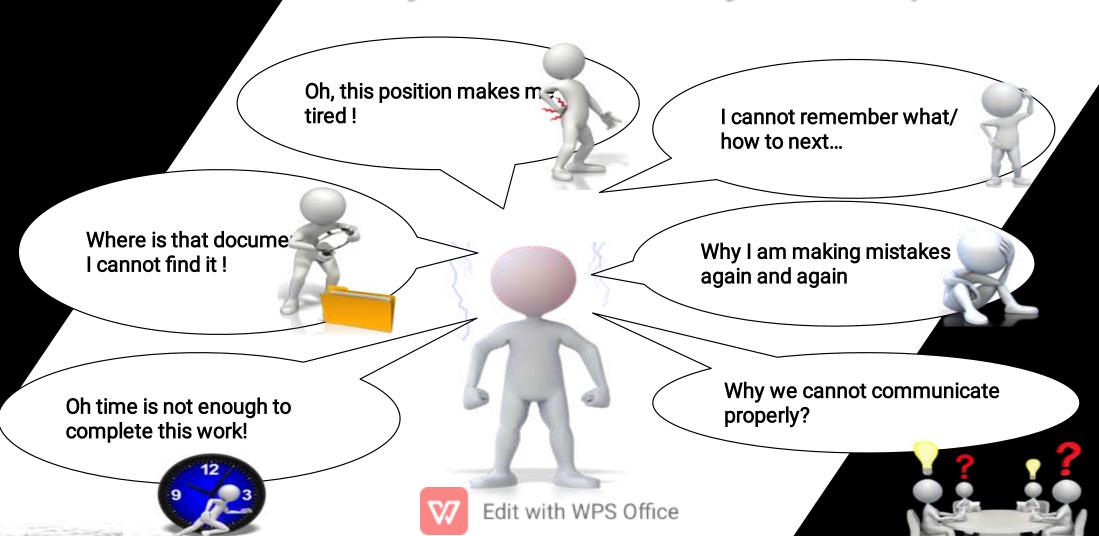
This slide presentation will get you and your team on the path toward efficiency and improved production. The ideas presented here are meant to build a foundation of knowledge about 5S so that you may be successful in implementing 5S into your facility.

Change is difficult, but don't worry—we're here to help. This information will quell any anxiety and uncertainty, and give you the confidence to embark on the journey toward a better production process.



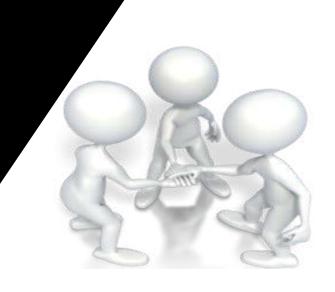


Are you frustrated in your workplace?



Work together and do something with big positive attitude?

Implement 5S System











First developed at Toyota in the 1950s, 5S is a foundational method of Lean manufacturing and REVOLUTIONIZED the way industries conduct production



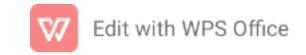
Implementing a good 5S program will:





Ensure Team work improvement through everyone's participation





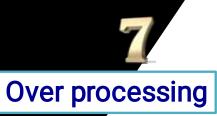




Identify wastes and reduce the wastes



The 7 wastes











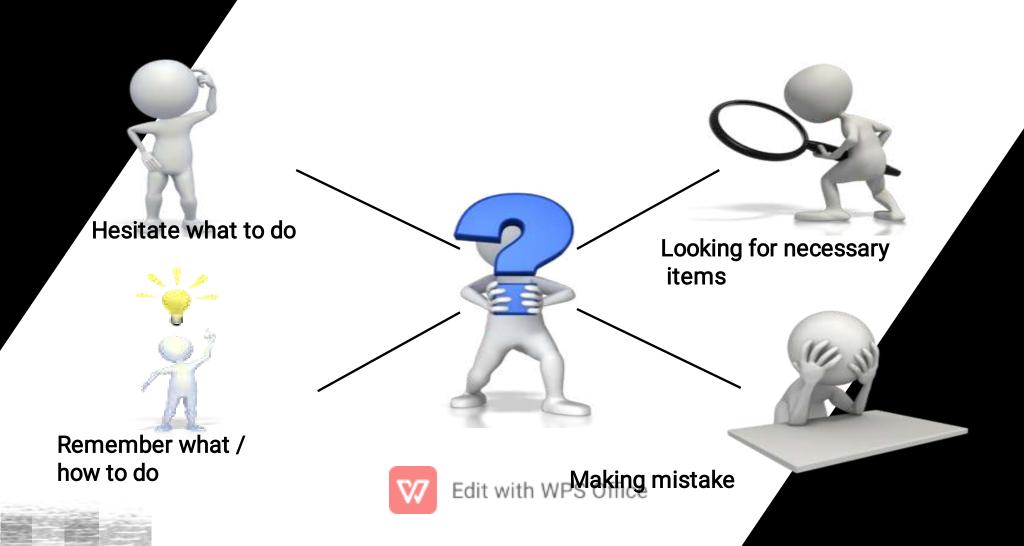
Improve safety







If no 5S activities, then....





Systematically remove unnecessary steps
& equipment from production processes







and maximize efficiency and profit.

W





The five stages or "pillars" of 5S

BASICS

5S was developed thirty years ago, by Hiroyuki Hirano, to establish TQM in Japanese production companies.





The five stages or "pillars" of 5S

1 SORT

From the Japanese phrase. "Sein!"

2 SET IN ORDER

From the Japanese phrase, "Seiton"

3 SHINE

From the Japanese phrase: "Selso"

4 STANDARDIZE

From the Japanese phrase: "Selketsu"

5 SUSTAIN

From the Japanese phrase; "Shitsuke"





"If You Fail to Plan, You Are Planning to Fail" — Benjamin Franklin

The five stages or "pillars" of 5S

Step-wise Practical Implementation of 5S





Diagnosis

Prepare project

Pilote:

Implementation

Sustainability

- Identify areas for improvement
- 2. Estimate the stakes

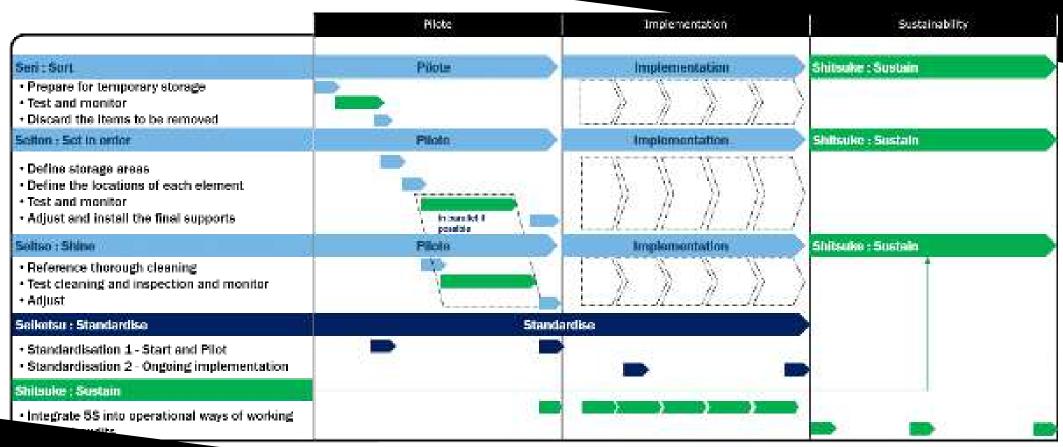
- Define the project objective and target
- Select either the areas of application and the areas of improvement to be implemented
- Define a planning, a project organization, a budget

- Train the project team and staff
- Implement actions in the pilot area
- a. Show savings
- 4. Improve the method

- Deploy to the rest of the perimeter
- 2. Train staff
- Integrate into the operational system
- Measure and communicate savings

1. Monitor and audit





This is a logical diagram; the lengths of the arrows are not proportional to the duration of the activities



SORT

(छंटाई)

整理

"Seiri"



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SORT calls for a full assessment of materials, only keeping items essential to completing tasks.

Separate required tools, materials, and instructions from those that are not needed. Remove everything that is not necessary from the work area.





To start- first
Identify, then remove
unnecessary items
from work areas.





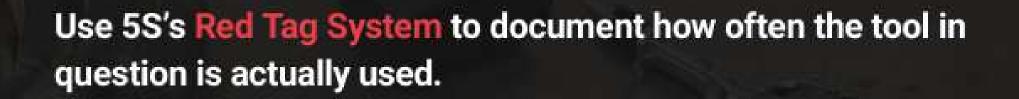


Can't decide if something should stay?











Red Tag systems are simple: you place the tags on undecided items, and notate on the tag when the item is used.

Product shown: 5S Red Tegs (CSSREDTAG) (also available in adhesive backed style)









Once you have an idea of how often a tool is used over time,

you can decide whether or not it should stay.







S1: Sorting activities

Equipment, material, tools files, furniture etc. can be categorized based on the frequency of use!



Examples of "Sorting"

- Place "Red tag" for categorization of items to identify unnecessary items
- Move unnecessary items(broken tools, obsolete jigs and fixtures, scrap and excess raw material etc.) to central stored area
- Free up valuable floor space (Space utilization)
- Finding ábnormality of equipment and tools (Out of order, missing parts etc.)



1st S- SORT (Seiri)

1.Prepare for temporary storage-

- •Designate a 5S Consultant amongst the organization.
- •Take pictures of the target area before removing its elements
- Define a place to temporarily store the elements that will be removed
- Prepare colour-coded labels to remove', 'maybe remove', 'replace', 'repair'.

Prepare handling equipment if necessary: box, trolley, pallet truck, etc.

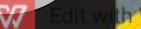
2.Perform a first sorting

- •Make one for the obvious elements, by moving the targeted elements into the storage area. If the handling equipment is not suitable for sorting 'immediately', put the labels remove '.
- •During this action, put the labels "maybe remove" in case of doubt
- •Put labels for the other categories that are obvious (it is optional at this stage, but it is a saving for the next steps)
- ·List the items put in this area for follow-up

3. Test and monitor

- Install the monitoring board; define and install a visual monitoring board in the target area with three categories:
 - * "Remove" with two columns:
 - □one to leave comments if some people think that shouldn't be removed
 - Done for those who have taken back or used an element of the area to be removed
 - *"Remove maybe" with four columns:
 - ☐ The list of elements with the "remove maybe" labels
 - □ Confirmed
 - ☐To be kept
 - Comments on the report
 - *"Remove ideas" with two columns:
 - Done to write additional ideas for parts to be removed
 - □one to say why or add comments







SORT

- Give a week (or other depending on the organization) for people working on the area to comment, add parts to remove, or remove parts from the 'remove' list
- Review the board and the area 'to be removed' (if elements have been included) and lead a team meeting-

☐ Review all categories and discuss the adjustment of lists and items to be removed

☐ Take the opportunity to make a first team tour and ask their opinion on the approach and results of this first step.

Estimate the savings of the removed items (estimate the frequency and cost of purchase if they remain in the list of items used)

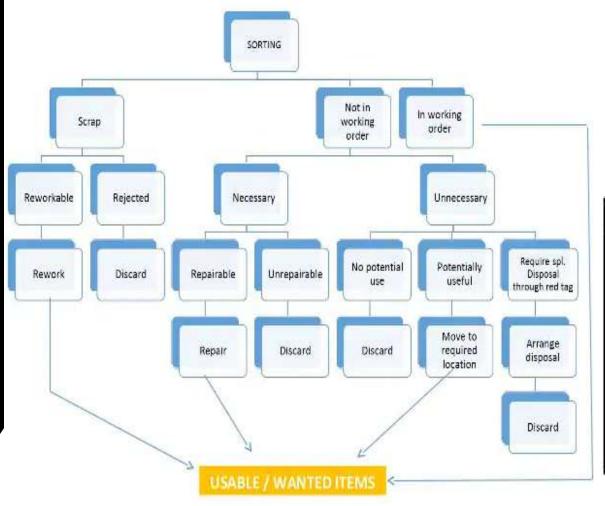
4. Finalise: discard the items to be removed

1S: Sort

Degree of Need	Frequency of Use	Storage Method
Low	Things you have not used in the past year	Throw thorn out
	Things you have used once in the last 6-12 months	Store at a distance
Medium	Things you have only used between 1-6 months	Store in a central place in the workplace
High	Things used once a week	Store near the work sile or carry on the
	Things used daily	person
	Things used hourly	







1. Seiri - Sort out

Stratification management and dealing with the causes

Typical Activities	Location Action by
 Throw away things that are not needed Deal with causes of dirt leaks and noise Organize cleaning the floors and housecleaning Treat defects, leakage and breakage Organize the storage of parts and files Policy of "One is best" one set of tools/stationery one page form/memo one day processing one stop service for customer one location file 	









1st S-Sort Before After Condition

Before



Red Tagging

After





Red Tag for 1st S





Once the Sort stage is complete, your workplace will be free of unnecessary clutter and will immediately see improved productivity.





SET IN ORDER

(सुसज्जित करना)

整頓

"Seiton"



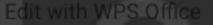
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SET IN ORDER organizes items that survived Sort stage in a way that makes tasks easier to complete.

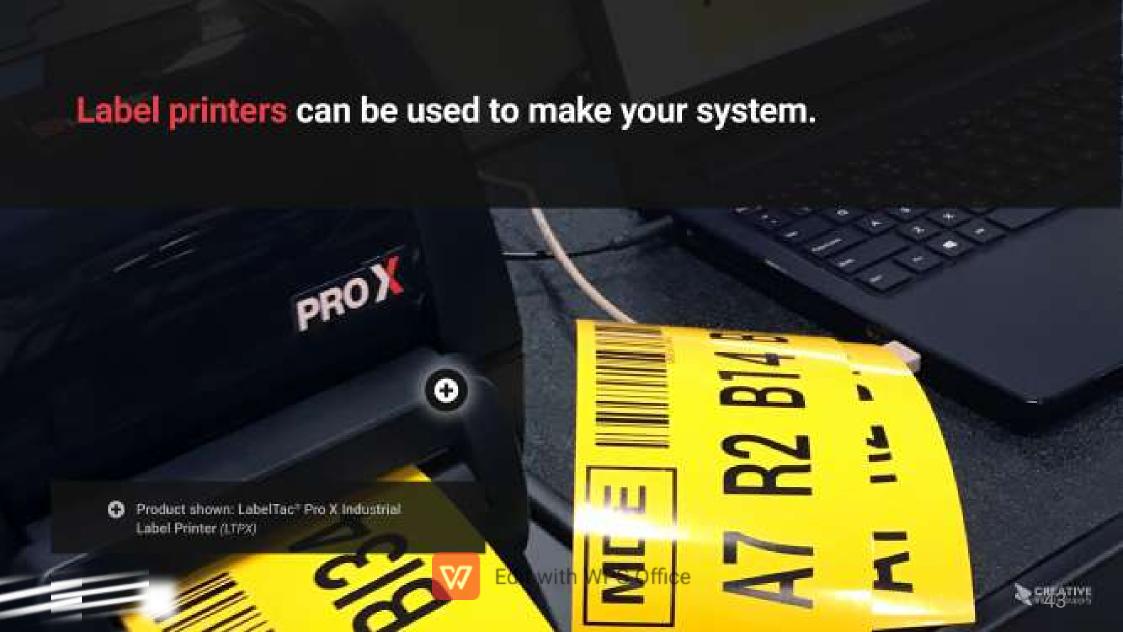
Sort and organize all tools, equipment, files, data, material, and resources for quick, easy location, and use. Label all storage locations, tools, and equipment.













S2: Setting activities

Think not only "beautification. Need to consider workflow and arrange items



Have consensus among co-workers on where and how to organize necessary items

- Needed items
- Items often use

(with current work process)

Use 5S tools for proper Organization of items such as

- Labeling
- Color coding
- Numbering
- Zoning etc.
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Arrange them properly based on "Can see, Can take-out, Can return"
Philosophy

SET ACTIVITIES

AUGUST 2021

PROCESS

SEPTEMBER 2021







2nd S- SET IN ORDER (Seiton)

1.Define storage areas-

- Make a list of the elements to be stored for each subarea (workshop, office, etc.) of the treated area
- For each element, ask the people who use them how often they are used (prepare columns day, week, month, month, quarter, year, never to facilitate work); note the subpart of the treated area
- Estimate the volume of parts for each periodicity with one detail per sub-area
- For each frequency, identify possible storage locations in the area using the following guidelines:
 - ☐ The closer the storage place is to the place of use, the more frequently it is used: every day, next to the person; every week, in the surrounding area...
 - ☐ The size of the site must be well dimensioned with more space than not enough (ease of search)

• Do not put the same type of element in two different places... but limit travel if two remote teams use the same elements

□Review why the two teams are distant; this can mean a redefinition of physical flows and workstations (a reason to deploy the 5S in a broader integrated Lean approach) □Otherwise, it will be necessary to choose the best solution (to be discussed with the teams) between duplicating the tools or increasing the travel

Involve teams in the choices





2nd S- SET IN ORDER (Seiton)

2.Define the location of each element within each area

- ☐ Collect the elements by search/use logic and according to specific constraints (safety, humidity...)
- ☐ Identify the necessary storage supports, standard (cabinet...) or to be manufactured (template...)
- ☐ prefer modular and flexible supports; one thing is for sure, there will be changes!
- ☐ If possible, do not purchase anything, or have any manufactured before the next test phase
- ☐ Further involve teams in the choices, especially for workstation elements

3.Test and monitor

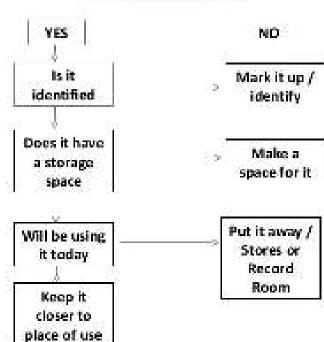
□ Define and implement monitoring means to obtain user feedback and start measuring the change (search and travel time, productivity...)
□It is easy to get feedback for daily use and there will be at least two weekly iterations but higher uses will be more random, so monitoring may need to be done later if the test phase is too long. □Store each element in its place as defined and operate for at least two weeks.

4..Adjust and install the final supports





USABLE ITEMS



Arrangement based on frequency of use



2. Seiton – Systematic Arrangement
Functional storage and eliminating the need to look for things

Typical Activities	Location	Action by
* Everything has a clearly designated name & place		
 30-second retrieval and storage 		
 Filling standards and control 		
 Zoning and placement marks 		
Eliminate covers and locks		
 First io, first out arrangement 		
 Neat notice hoards (also remove obsolete notices). 		
 Easy-to-read notices (including coning) 		
 Straight-line and right angle layout 		
- Functional place of an infinitely in the control of the control)	

2nd S Implementation







Set in Order enables workers to perform more productively and without the frustration of not being able to find the tool they need.





SHINE

(स्वच्छता)







Shine requires proactive efforts be taken to keep workplace areas clean and orderly.

Set new standards for cleanliness. Clean and remove all trash, grease, and dirt. Everything must be clean, tidy, and neatly put in its appropriate place. Cleanliness provides a safe workplace—and makes potential problems noticeable, e.g., equipment leaks, loose parts, missing guards, loose parts, or materials.





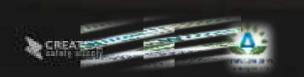
Clean all surfaces, floor, and tools in each area.

WPS Office





Throw out expired materials, discarded parts, and other waste.





S3: Shining activities



- Clean floor, windows and walls.
- Clean and Maintain office automation machines, medical equipment and tools, office furniture
- Develop and follow regular cleaning and Maintenance schedule
- Periodical check for changes in equipment and the service area such as: leaks, vibration, misalignment, breakage etc.
- IPC activities such as hand hygiene, waste segregation are also part of shine







3rd S-SHINE (Seiso)

1. Do a thorough "reference" cleaning

- *Take a picture of each area before cleaning
- *Define cleaning and inspection instructions at the same time as cleaning:
 - Cleaning instructions: frequencies, cleaning means, people who clean and specific instructions when necessary (disassembly, safety...)
 - □Inspection: In industrial (factory, warehouse, etc.) or technical (e. g. laboratory) environments, inspection is the greatest added value of cleaning because it helps to prevent breakdowns or work incidents
 - Doing it at the same time will allow to test the instructions during the next cleaning.
- ❖Take reference photos
 - ☐ Photos of the result AND anomalies (if observed) for each area with details for critical elements.
 - Add them to cleaning and inspection instructions or other procedures (e. g. self maintenance)

2. Test cleaning and inspection

- □ Review cleaning and inspection instructions with area managers and adjust if necessary □ Define and implement monitoring means to obtain user feedback
- □Carry out the test, if possible at the same time as the "Sort" stage in order to pool monitoring resources and reduce the pilot's total time, unless this delays the test in the "Sort" stage too much

3.Adjust



3. Seiso – Spic & Span Cleaning as inspection and degree of cleanliness

Typical Activities	Location	Action by
 Individual cleaning responsibility assigned 		
 Make cleaning and inspection easier 		
 Regular sparkling cleaning campaigns 		
 Cleaning inspections and correct minor problems 		
 Clean even the places most people do not notice 		





3rd S Implementation

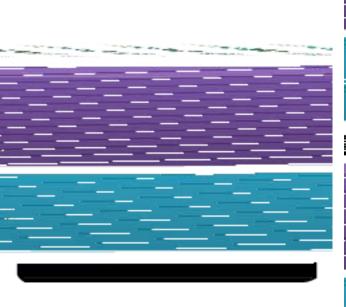
3-Step Approach to Cleaning

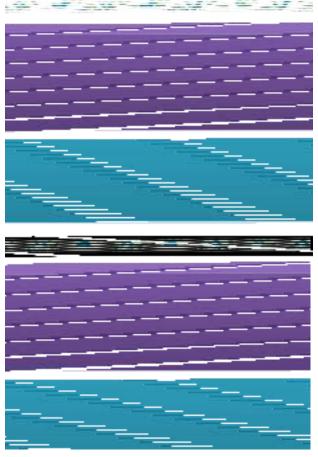


Common areas, walls, ceilings, lights, storage areas, toilets, "junk yards", shelves, filing cabinets, etc.

Individual workstations, chairs, drawer computers, cabinets, shelves, etc. Cleaway things underneath your table!

Measuring instruments, e.g. micrometagauges, vernier calipers, contact surfaces, etc.

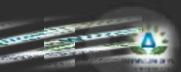








When facilities are clean, employees work better, faster, and have higher morale.



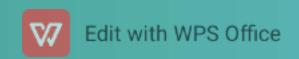




STANDARDIZE

(मानकीकरण)

清掃 "Seiketsu"





This step calls for the creation of new standards for both organization and processes.

Engage the workforce to systematically perform the previous steps daily, to maintain the workplace in perfect condition as a standard process. Establish schedules and set expectations for adherence.







Create and post rules for each work area. Standards should be simple and visual.



Create a red-tag
policy, well-labeled
tool organization
systems, and
cleaning checklists.

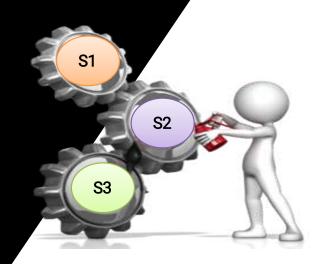




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S4: Standardizing activities



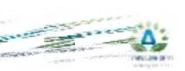
Develop mechanism to standardize S1-S3 implementation for continuation



Standardization will leads equalization of activitie = "Production leveling and smoothing"

Standardization is useful for;

- Easy implementation of S1 to S3 activities
- Equalization process output
- Everyone's participation
 Edit with WPS Office



Example of "Standardize" activities

- ✓ Work instructions, Standard Operating Procedures (SOPs)
- Checklist development and regulations of the control of the con
- Mechanism and format development for ordering supplies, reporting etc
- Color coding for waste segregation
- Standardized common symbols









Seiketsu - Standardization...

Visual management and 5-S standardization

	Location	Action by
 Foolproofing (Poka-yoke) practices 		
Responsibility labels		
 Electrical/telephone wire management 		
 Colour coding - paper, files, containers etc 		
 Prevent noise and vibration 		
 Department/office labels and name plates 		
 Park-like environment (garden office/factory) 		

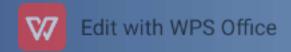


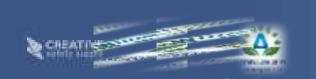


SUSTAIN

(स्वानुशासन)

美 "Shitsuke"



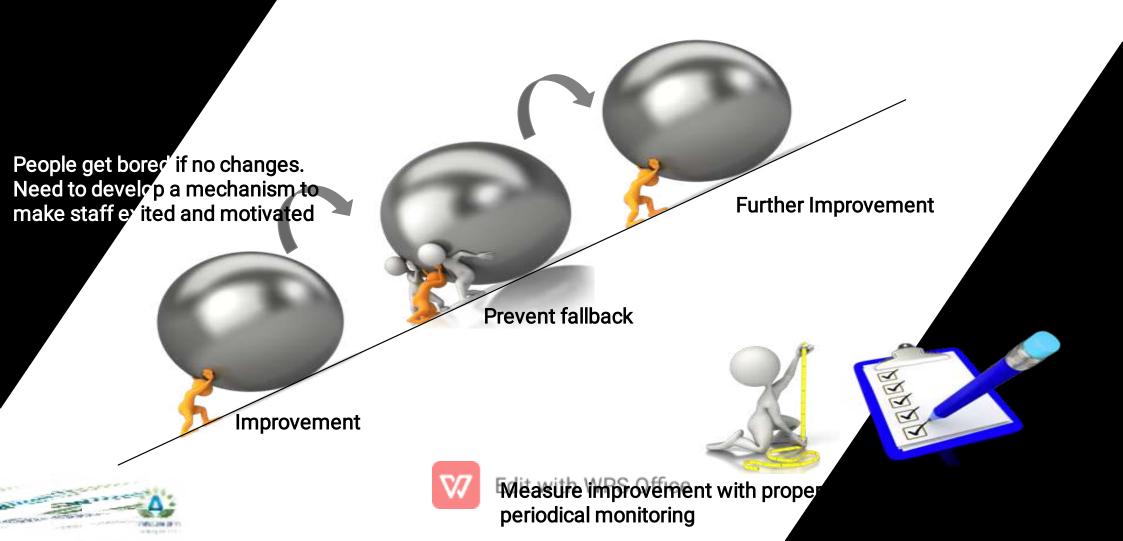






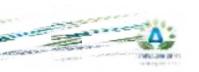


S5: Sustainability activities



Examples of "Sustain" activities

- Regular progress reporting
- Refresher training
- Periodical evaluation of 5S activities with proper advices for continuation and further improvements
- Appreciation, recognition and awarding on good 5S activities
- Reminder using 5S corner, new letters, good practice sheet etc.







4th S-STANDARDIZE (Seiketsu)

This phase makes it possible to standardize the 5S method but also provides an opportunity to detect the lack of standardization in operating procedures (format, level of detail, content).

1. Inventory and Pilot Standardization

Make an inventory of the different standards in terms of operating procedures in the different areas; select or define a standard format; this phase must begin before describing the storage and cleaning procedures □Adjust the standard at the end of the pilot and ensure that all pilot documents or tools are standardised ☐ Possibly standardise the other procedures, outside the 5S method.

2. Implementation standardisation

Each deployed area must apply the standards □Nevertheless, adjustments can be made during deployment based on accumulated experience; continuous improvement begins

4th S-SUSTAIN (Shitsuke)

Sustainability starting at the pilot phase

The sustainability actions are already starting within the pilot since it is at this point that the results measurements begin *At the end of the pilot, an assessment is made to adjust and complete the measurement system before deployment

Sustainability during deployment

The 5S method is integrated into the existing performance monitoring tools and operational ways of working of each deployed area: procedures, visual display, area indicators

A progress dashboard of actions and results is consolidated as they are deployed

Sustainability after deployment

Results monitoring indicators are integrated into the management dashboards

*An audit process is defined, with a faster frequency at the beginning



5. Shitsuke - Discipline Habit formation and a disciplined workplace

Typical Activities	Location	Action by
All-together cleaning		
 Do daily physical exercise all together 		
 Practice pick-up components and rubbish 		
 Wear your safety helmet/gloves/shoes etc 		
Public-space 5-S management		
Practice dealing with emergencies		
 Execute in individual responsibility 		
 Good telephone and communication practices 		
Design and allow the 5-S manual		
• Seeing-is-believing: check for 5-S environment		





4th & 5th S Implementation

5S Audit Checklist & Results

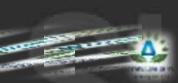
Example of Visual Metrics



One can also use MS-Excel to prepare 5S evaluation charts. One can also maintain manual registers.



5S can revolutionize the way your business operates. SUSTAIN ensures 5S is a long-term best practice rather than a brief experiment.











Before 5S After 5S

















Before After





















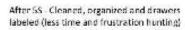














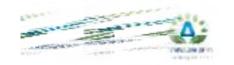
Before 5S (2009)
Disorganized items in the store. Took long time to searching items needed



After 5S (2010)
Use labeling and organize items lead to minimize time for searching items, easy to control stocks









Before 5S Disorganized cabinet in a ward

After 5S







Using color coding for Visual control of ampules in a ward

Green means "enough stock"

Yellow means giving warning on

"stock is getting less"

Edit with WPS Office

Red means giving warning on "close to stock out and refill"



5S & Safety

- Wear protective clothes. goggles and shoes in the lat
- Install protective covers on equipment and machines
- Label warning signs prominently
 - High voltage, Radiation, Slippery/Wet floor, etc.
 - Under Test Do Not Switch Off

5S Publicity

- 5S publicity materials
 - Booklets, badges, brochures, cups, pens, etc.
- 5S training and education
 - Provide 5S training to managers and staff.
 - 5S pamphlets
- 5S notice boards/intranet
 - 5S news
 - · 'Before' and 'After' photos



- 5S / Clean-up Day
 - event Best on Fridays or before a. festive season or public holiday

Set aside half a day for this

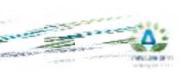
- · Everyone in casual attire, e.g. T-shirts:
- Prepare sufficient cleaning equipment, detergents, paints, etc.
- Speech by CEO on importance of 5S to all staff

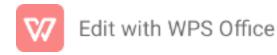




5S is becoming popular for seven solid reasons

- Visible results enhance the generation of more and new ideas
- 2. The workplace gets cleaned up and better organized
- 3. Hospital and office operations become easier and safer
- 4. Results are visible to everyone insiders and outsiders
- 5. People are naturally disciplined
- 6. People take pride in their clean and organized workplace
- 7. As a result the company's good image generates more better





5S-KAIZEN-TQM Phases

Preparatory phase — 3 month

Introductory
Phase
6 month

Implementation phase 2 years

Maintenance phase On going

- ·Situation analysis
- •Training of managers

- •Training of staff
- Sorting
- Setting
- Shining

- Standardizing
- Sustaining
- Expansion areas to practice 5S activities

· Continue 5S cycle



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Target of 5S

Targets of Five-S include:

- ✓Zero changeovers leading to product/ service diversification
- Zero defects leading to higher quality
- ✓Zero waste leading to lower cost
- Zero delays leading to on time delivery
- ✓Zero injuries promoting safety
- ✓Zero breakdowns bringing better maintenance Edit with WPS Office



So, we conclude that 5S helps in executing the basic housekeeping methods in a professional and conducive manner. I hope your all queries have been resolved regarding 5S System.

Thanks for your attention....
Any Queries

