



IMPLEMENTATION OF 5S IN OSWAL MACHINERY LTD

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Abstract: First we have through a visit in OSWAL MACHINERY LTD. v.u.nagar anand and they are manufactured crane. The objective of this research is to identify the current Quality Management System (QMS) implemented in this company while carrying out their operation. After that we have observe an in-disciplinary of long time to manufacture a product. And order and flow of machines are not in a proper way. So we think to remove this kind of in-disciplinary and unnecessary movement of men, machine, material which is done by applying of 5s. If we are applying 5S methodology in such a way like doing an order and flow of machines, proper timing of machining, specific arrangement for disposal of unnecessary material, specify location of the every equipment and after that it will improve in production and saving time of a production.

KEY WORDS: 5S, SYSTEM, MACHINE

I-INTRODUCTION

Modern management in the company is not only the quality management system, but pursuit to the continuous improvement, so this is the philosophy of the Total Quality Management.

During the time of World War II, it virtually destroyed the production capability of Europe and Asia. On the contrary, the United States (U.S) production capability greatly expanded since their major emphasis was on quantity and not quality production.

5s concept developed by Japanese, Osada developed the original concept of 5s in early 1980s. 5s is acronym for five Japanese words

Seiri

Seiton

Seiso

Seiketshu

Shitsuke

A '5S' driven workplace enhances productivity and competitiveness and fosters a productivity culture through a continual process of identifying, reducing and eliminating MUDA in Japanese for Waste.

5S is one of the most widely adopted techniques from the lean manufacturing toolbox. Along with Standard Work and Total Productive Maintenance, 5S is considered a "foundational" lean concept, as it establishes the operational stability required for making and sustaining continuous improvements.

The primary objective of 5S is to create a clean, orderly environment, an environment where there is a place for everything and everything is in its place. Beyond this, many companies begin their lean transformation with 5S because it exposes some of the most visible examples of waste it also helps establish the framework and discipline required to successfully pursue other continuous improvement initiatives.

5S turn out to be the most impressive "secret". Many western managers coming across the approach for the first time found the experience to be enlightened.

SEIRI OR SORT

Seiri is sorting through the contents of the workplace and removing unnecessary items. This is an action to identify and eliminate all unnecessary items from the workplace.

Develop criteria for disposal for not-needed items. Classify the items by frequency of use. Unneeded or unnecessary items should be stored in the holding area. If the items are not needed for work, then the items can be disposed. Disposal should be done in either of the following ways. Move to other department/section where the items are required. Sell to someone

outside the company. Discard and haul away. This leads employees to waste valuable time and motion searching, waiting, retrieving, reworking or just plain giving up! So we have observed all the processes and layout in a company and we meet all the employers and workers in a company. After that we concluded that time wasting in a company and all the processes and work are not properly arranged. So that we have decided to apply 5S methodology in a company so that it reduced time and it improve all the processes going in a company. In a step of 5S which is seiri in this we have make a note of things which are important and not important and after that we have decided to some proper arrangement for this things. We have taken some photographs of the work of step.



Before fig.1



After fig.2

SEITON OR SYSTEMATIZE

Seiton is putting the necessary items in their place and providing easy access. This is an action to put every necessary item in good order and focuses on efficient and effective storage methods. Decide which things to put where from the point of view of efficient operations.

Analyze on the basis of following steps:

What do they need to do their job?

Where should they locate this item?

How many of this item do they really need?

Locate needed items so they can be retrieved in 30 to 60 seconds with minimum steps. Make a clear list of items with their locations and put it on lockers or cabinets. Label each locker/drawer/cupboard to show what is kept inside. Outline locations of equipment, supplies, common areas and safety zones with lines. So in second step we have arranged important things which used daily like tools machines so this things are easy available to all employers.



Before fig. 3



After fig.4



After fig.5

SEISO OR SWEEP

Seiso involves cleaning everything, keeping it clean daily, and using cleaning to inspect the workplace and equipment for defects.

Treat cleaning as an inspection process. Use it to identify even tiny abnormal and pre-failure conditions. Working in a clean environment enables workers to notice malfunctions in equipment such as leaks, vibrations, breakages, and misalignments. Clean the workplace before starting of the job and before closing the job. Put aside 10 or 15 minutes for the same activity per day.

SEIKETSU OR STANDARDIZE

Seiketsu involves creating visual controls and guidelines for keeping the workplace organized, orderly and clean. Seiketsu helps to turn it into natural, standard behavior.

It focuses on the need for arranging tools and equipment in an order that promotes optimum work flow.

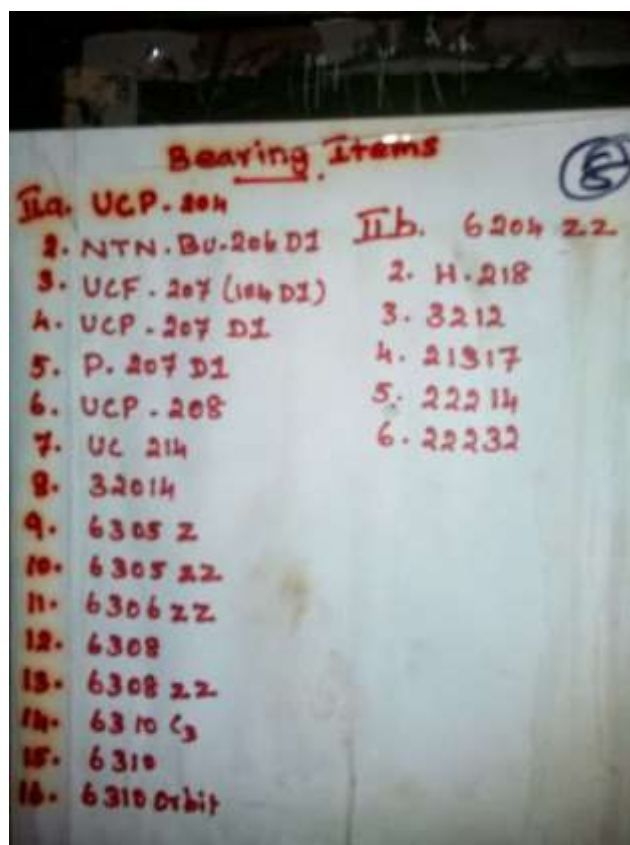
Employees will be able to immediately see if things are out of place and if more materials, supplies, or tools need to be.

Standardize procedures for creating shadow boards, position lines, and labeling of all items. Assign responsibility to individuals for a work area and machinery. Regular inspection/audit and evaluation by a special team to be continued.

So in this step we have checked out that all the workplace are properly and it is in proper order, so it other means all the first three step are properly working. And after that we have tagging all the cup-board of instrumental room so that every tool and instrument easily find out by employee.



After fig. 6



After fig. 7



After fig.8

SHITSUKE, OR SELF-DISCIPLINE

Shitsuke involves training and discipline to ensure that everyone follows the 5S standards. Accordingly, it becomes the culture in the organization.

Dedication, commitment, devotion and sincerity are needed in implementation of 5S on daily basis. Single point lessons should be used to communicate the standards for how 5S work should be done. Root cause problem-solving process should be in place where root causes are eliminated and improvement actions include prevention.

So we had organize some meetings with worker and employers to give the idea of 5S what is the importance and benefits of 5S so they are willing to do the work and also they are familiar with 5S technology so they give their best output in work.



After fig. 9

CONCLUSIONS

In the working days of a company we have observed the overall production and procedure of a company. After that we had decided to apply 5S in company to improve production and reduce time. After that we have applying 5S in the store room and in the use of standard products and we have apply 5S also in machine flow and its order. After that it will helps in improve in production and also in time saving.

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