Monitoring and Evaluation of KAIZEN activities

KAIZEN Training of Trainers 2015

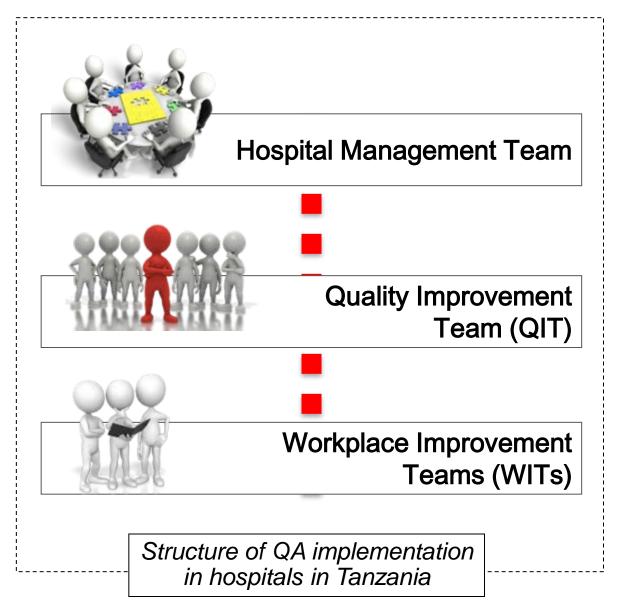


Objectives of the session

At the end of the session, trainees are able to:

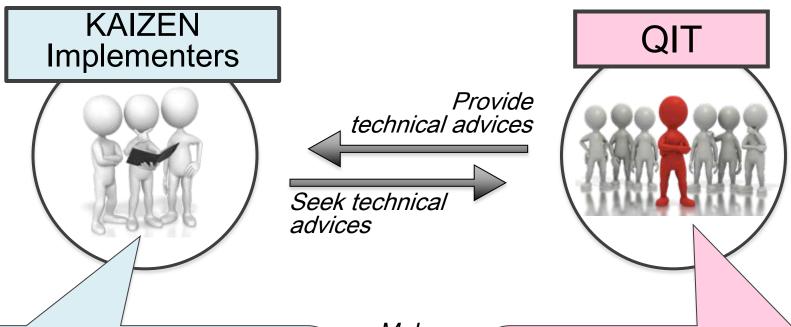
- 1.Understand how to conduct M&E for KAIZEN activities
- 2.Understand how to use M&E tools for KAIZEN activities

Who monitors and evaluate KAIZEN activities?





Levels of monitoring and evaluation of KAIZEN



- Monitor their daily KAIZEN activities at section level (Step 5, Step 7)
- Evaluate effectiveness of own KAIZEN (Step 6)

Make KAIZEN on Right track!



- Monitor all KAIZEN activities at all section in their hospital
- Evaluate all KAIZEN
 activities to measure
 improvement of hospital
 management

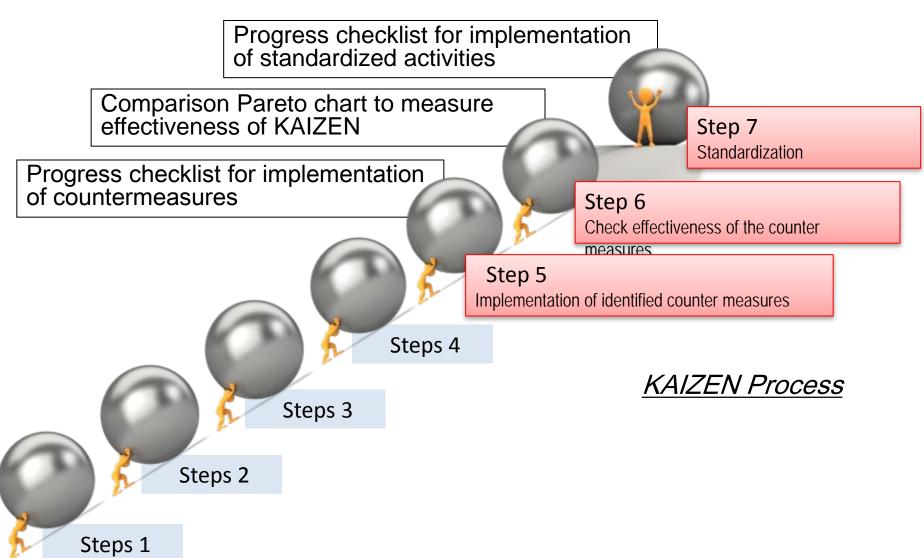
Monitoring and Evaluation by the KAIZEN implementers



M&E in KAIZEN process

- "KAIZEN Process" itself is M&E process, especially on KAIZEN Step 5, 6 and 7
- M&E of these steps should be done by the KAIZEN implementers
 - Step 5: Checking progress of implementation of identified countermeasures
 - Step 6: Measuring effectiveness of countermeasures between before and after
 - Step 7: Checking sustainability of effective countermeasures

"Tools for M&E by the KAIZEN implementers"



What to be monitored and evaluated by WITs?

- Timeframe of KAIZEN Process implementation
 - One KAIZEN event takes 6 months and necessary to monitor time spent for each step
- Execution of action plan (developed in Step 5)
- Achievement (improvement of before and after KAIZEN in Step 6)
- Sustainability of standardized activities (Step 7)

Monitoring and Evaluation by QIT



What to be monitored and evaluated by QIT?

- KAIZEN Team function
- Monitor all WITs' activities
 - Check whether each KAIZEN step is carried out on right track or not
 - Check whether each QC tool is utilized properly or not
 - Check whether record keeping is done properly or not
- Support WITs to clarify effectiveness towards improvement of hospital management

During internal evaluation of KAIZEN

- Visit all areas implement 5S-KAIZEN activities and interview KAIZEN teams
- Fill in 5S-KAIZEN M&E Sheet, and check the section No. 1 – 14
- Check records of KAIZEN process, and then fill in KAIZEN Process Checklist
- Develop feedback presentation on KAIZEN practices after the observation visits
- Feedback the results to all KAIZEN teams

Tips for successful M&E for KAIZEN by QIT

- Compose teams for conducting M&E
- Before starting M&E, review on how to use M&E tools together with all the members
- Before starting M&E, clarify responsibilities of each member of the team

(Example)

- One for concentrating on interview to QIT and checking records of KAIZEN
- Another for concentrating on M&E of 5S activities

Cont.

- Visualization of the results of M&E is essential to give feedback to WITs effectively
- Making consensus to all scores and findings among practitioners

Cont.

- Good practices of KAIZEN should be shared with all the department/sections in your hospital
 - Share in the meetings (morning report, management meetings, department meetings etc.)
 - Display the practices on notice boards in common places etc.

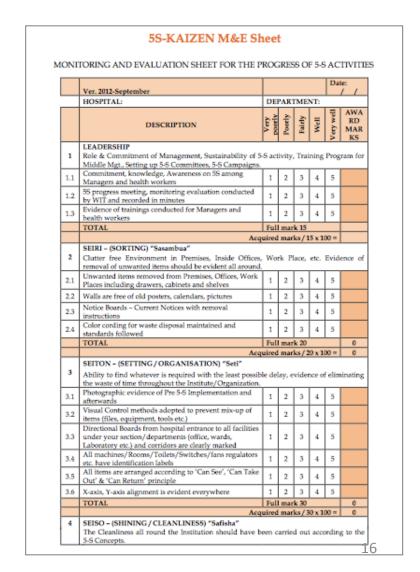


Tools for M&E of KAIZEN activities

- I. Monitoring and Evaluation sheet for progress of 5S-KAIZEN activities (with Point to be observed)
- II. KAIZEN Process Checklist
- III. KAIZEN Supportive Supervision Sheet
- IV. KAIZEN Record Sheet (Microsoft EXCEL)

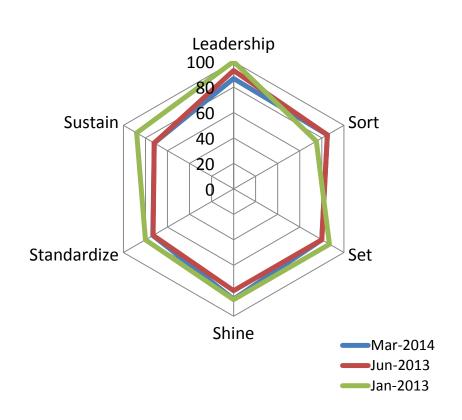
I. Monitoring and Evaluation sheet for progress of 5S-KAIZEN activities

- Monitor and evaluate progress of 5S activities
 - Section 1 6: 5S activities
 - Section 7 14:KAIZEN activities
- Use point to be observed (Criteria)





Ward 14



Strength

Active participation in 5S-KAIZEN

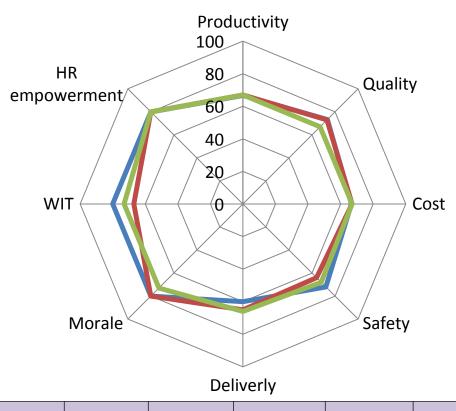
Challenges

 Photographic evidence are not well utilized and displayed

Ward 14	Leadership	Sort	Set	Shine	Standardize	Sustain	Average
Mar-2014	87	85	80	87	73	72	80.6
Jun-2013	93	85	80	80	73	72	80.5
Jan-2013	100	75	87	87	80	88	86.2



Ward 14 - KAIZEN



■Mar-2014 ■Jun-2013

——Jan-2013

Ward 14	Productivity	Quality	Cost	Safety	Deliverly	Morale	WIT	HR empowermen t	Average
Mar-2014	67	73	67	72	60	80	80	80	72.3
Jun-2013	67	73	67	64	65	80	67	80	70.4
Jan-2013	67	67	67	68	66	73	73	80	½0.1

II. KAIZEN Process Checklist

- Evaluate each KAIZEN process
- Check proper usage of QC tools

KAIZ	EN F	Proces	ss Chec	klist.	
Hospital -		-			
Department/Section/Unit/Ward		1			
Date of Monitoring		,			
,		, ,			,
When KAIZEN started?		, ,			-
Number of KAIZEN team memb	oro .	-			
Last date of meeting with QIT fo		-			
consultation	и	100			
Problem statement of the section	n -	1			
KAIZEN Theme				,	
1. Theme of KAIZEN		0 -	12	2 -	Г
KAIZEN Theme	difficult to	ot used and o implement oartment	Matrix used but + difficult to implement + within department -	Matrix used and + possible to implement + within department	ø
2. Situation analysis		0	1.	2 -	
Information collection -	No inform		Wrong information collected	Right information collected	
Current data table -	Not made	87	Made but wrongly -	Made correctly -	
Pareto chart development 🧳	Not made	87	Made but wrongly -		
Pareto chart scale	No scale	written	Scale of Pareto chart is not correct	Scale of Pareto chart is correct	
3. Root cause analysis		0 -	17	2 -	
Fishbone diagram development	Not done	i v	Developed wrongly and root causes are not well identified	Developed correctly and root causes are identified	
Description/Sentence completeness	Difficult t	o understand -	Sentences are not completed	Complete and clear	
Depth of Why-Because analysis	WHY-BE not asker	CAUSE is	WHY-BECAUSE asked not enough >	WHY-BECAUSE asked enough	
Countermeasure identification		0 -	12	2 -	
Tree diagram	Not made		Made but wrongly -		
Matrix diagram	Not made		Made but wrongly -		
Feasibility check 5. Implementation of	Not done		Done but wrongly		
counter measure		0 -	12	2 -	
Action Plan development -	5W1H ac develope	ction plan not	5W1H action plan developed wrongly	5W1H action plan developed correctly -	
Counter measures implementation -	Not imple	emented -	Identified measures partially implemented >	All identified measures implemented >	
Monitoring of implementation -	Monitorin	ng not done -	Checklist developed but not used	Checklist developed and used	



Ward 14

Section Name	WD 14	
Date of monitoring	17.3.2014	
KAIZEN Theme	Readmission of patients with post catheterization is r	reduced

1. Theme of KAIZEN	2	Good understand	ding and skills observe	ed				
KAIZEN Theme	2	1	Weak knowledge and skills observed					
2. Situation analysis		0	NOLYELUONE ON	oor understanding at	IU SKIII IUI			
Information collection	2							
Current data table	2	Number of KAIZI	EN team members	3 members				
Pareto chart development	1	Whenthis KAIZE	EN case started ?	The beginnig of Octol	per 2013			
Pareto chart scale	1							
3. Root cause analysis		Good to start KA	NZEN practice					
Fishbone diagram development	2	However,						
Discription/Sentence completeness	1			ols was observed, esp	ecially in			
Depth of Why-Because analysis	1	Step 2 and Step						
4. Countermeasure identification			all steps (Step 7)					
Tree diagram	2	- Target is not se						
Matrix diagram	2	It is suggested to develop monitoring checklist for implementation						
Feasibility check	1	of countermeasu						
5. Implementation of counter measure	Accelerate to practice Step 7 as soon as possible and complete whole steps by the end of March 2014							
Action Plan development	2	whole steps by t	ne end of March 2	014				
Counter measuers implementation	2							
Monitoring of implementation	2							
6. Effectiveness check								
Comparison data table	2							
Comparison Pareto chart	2							
Pareto chart scale	1							
7. Standardization of effective measures								
Identification of effective measures	0							
Standardization procedure	0							
Standardization Plan development	0	Total score	Total %					
Monitoring of implementation of effective meas	0	28	63.6		20			
Target achievement	0		•	-	-			

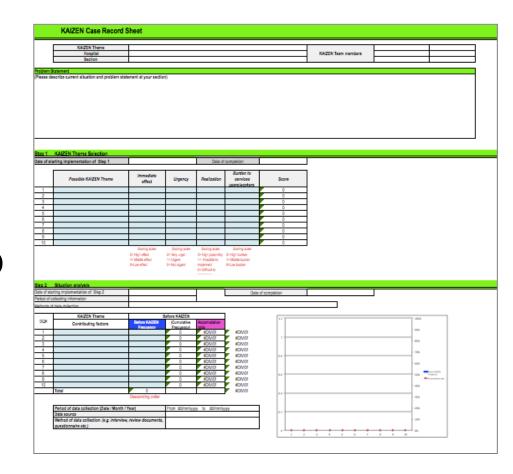
III. KAIZEN Supportive Supervision Sheet

- To check whether KAIZEN activity is practicing in right track or not
- Important points to be checked are clarified in each KAIZEN step

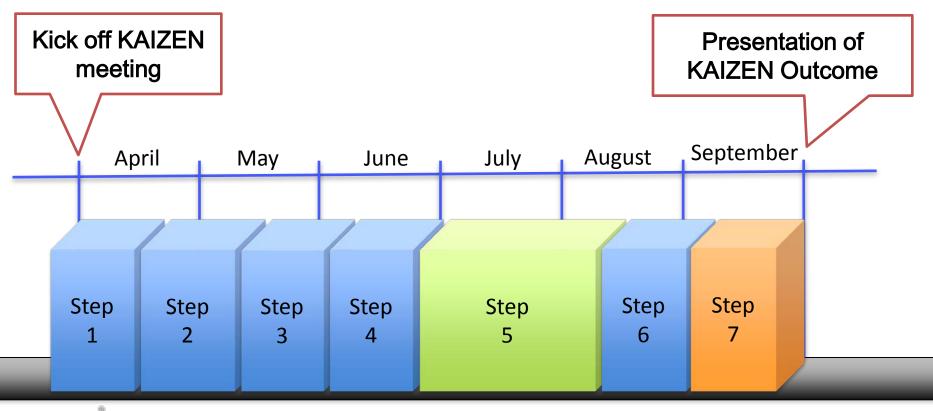
		KALTEN Supportive Supervision Checklist	Date				
		Points to check	Yes	No	Date of check	Check by	
	1	Ask number of KAE-ZN team members					
Before	2	Check problem statement of the section/unit					
KAIZEN 2		Check the dute of the KAIZEN case started					
	4	Check whether they have selected the theme which can be solved within the section Amit or not					
	5	Check whether the KAIZEN theme was salected with Matrix Diagram					
Step 1	6	Check whether the scale of feesibility is clarified or not					
	7	The KAIZENtheme is written in "positive manner"					
	8	Check whether appropriate quantitative data are collected related with the KAIZEN theme or not					
	9	Check whether KAIZEN members well understood relation between the KAIZEN theme and contributing					
	10	feactors or not.					
	11	Check whether date source is appropriate or not					
	12	Check whether data collection method is appropriate or not Ask the period of data collection and check it is appropriate or not					
Step 2	12	Ask the period of data collection and check it is appropriate or not. Check whether all the records were lead for data collection or not.					
		Check whether compilation of the date, calculation of cumulative frequency and ratio was done property by					
	14	Late ox wine their completion of the deta, concurrence of cumulative frequency and radio was done property by wishing table or not					
	15	Check whether Pareto Chart is properly developed based on the table or not; Need to check the scale, Plotting					
		point of camulative ratio, Description of contributing factors)					
	16	Check whether the larget setting is done or not					
	17	Check whether contributing factors identified in Step 2 is used as a head of Fishbone or not					
	18	Check whether contributing factor in the head of Fishbone Diagram is stated in sentence; Why (the					
Sten 3	19	contributing fector) happenes? Check whether "Couse-Effect (Why-Recouse;" relation is clarified arnot		-			
Step 3	20	Check whether "Why-Because" is asked enough to find not causes or not					
	21	Check whether sentence used in the Fishbone Dispremene clearly stated or not					
	77	Check whether "No money", "No human resource" and "No material" are not identified as a root cause:					
	23	Check whether all the identified in Step 3 is reflected in Tree Diagram or not					
		Check whether detailed countermessures are identified or not, breakdown of countermeasures by the level of					
	24	COARRIETTIC BOATES					
Step 4	25	Check conflict of activities among identified countermeasures					
	26	Check whetherfeasibility is appropriately done or not; Check the relation among the identified					
	27	countermeasures against a not cause					
	27	Check whether the scale and cutoff point of feasibility check are clarified or not Check whether ell countermes sures identified are possible to carried out within the section/unit or not					
	26						
Step 5	30	Check whether all feasible countermeasures are reflected in the action plan Check whether the action plan are developed besed on "SW1H"					
outp o	31	Check whether monitoring checklist is developed or not					
	32	Check whether appropriate timing is given to implement all countermeasures or not					
		Check whether all necessary data is collected for effectiveness check or not, same methodology and period					
	33	applied in Step 2					
		Check whether comparison table for effectiveness check is developed or not; Frequency before and after					
	34	KAZEN, cumulative number frequency before and after KAZEN, Cumulative ration before and after are					
	-	oppropriately calculated or not in the comparison table. Persto Charts for before and after KAZEN are developed based on the comparison table or not Scale of	-				
Step 6	35	frequency, Cumulative retion, Plotting points of cumulative ration					
		Check whether Pareto Chart is properly developed based on the table or not; Need to check the scale and					
	36	scale adjustment behaven before and after the KAZEN, Plotting point of cumulative ratio, Description of					
	37	contributing factors)	-				
	37	Check whether effective countermeasures are identified and listed or not Check whether ineffective countermeasures are identified and listed or not	-				
	36	Check whether methodise countermeasures are identified and listed or not. Check whether all effective countermeasures are reflected on standardization plan or not.					
	40	Check whether standardization is developed based on "SW1H"					
Step 7	41	Check whether a monitoring chacklist for standardized activities is developed and used or not	-	-			
	42	Check whether standardization plan is shared with all staff working in the section/unit.	-	-			
		After completion of one KAIZEN case, check whether discussion and action and taken for next KAIZEN case.	-				
43 44 45	43	ornot					
	44	Check whether all records of KAIZEN process are kept property or not					
	Check whether starting and completing period of each KAIZEN step is clearly recorded or not						
Општи	46	Check whether All KAIZEN process is planned to complete within 6 months or not, check existing of					
Issues		implementation schedule					
	47						
	48	Check whether stell are understanding purpose of each KAIZEN step or not					
	49	Check frequency communication behave an QIT and KAIZEN members on the KAIZEN case	-				
	50	Check the evidences of countermeasures of the KAIEZN case, for example Training manuals, SOPs, Training report and so on	1		1	24	

IV. KAIZEN Record Sheet (Microsoft Excel)

- It helps you to record KAIZEN activities
- Also, it has a function to develop Pareto Chart, calculate formula etc.



Schedule of KAIZEN event





SDCA cycle and **PDCA** cycle

by KAIZEN

S: Standard

D: Do

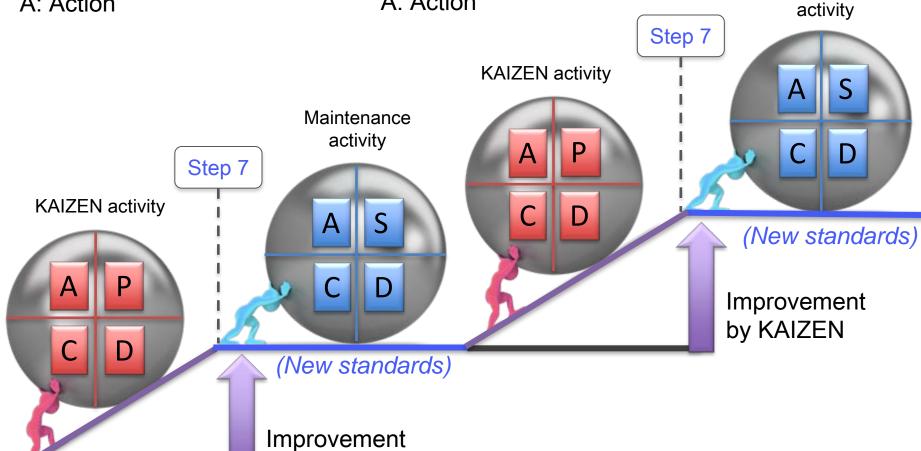
C: Check

A: Action

P: Plan D: Do

C: Check

A: Action



Maintenance

Thank you very much for listening