### Working Group 1&3

# Summary of the Activities of the first half of the year 2022 for AKAC 2022

4<sup>th</sup> October 2022

Chair of WG 1&3 Mr. Hosni Belhadj, CETIME, Tunisia

# Design for Pilot Program for WG 1

Activities	<ul> <li>The survey team is visiting the selected country to assist them set up the certification system.</li> </ul>
Duration	About 3 weeks x 3 times visit by JICA survey team until October 2023
Evaluation	<ul> <li>The findings will be reflected to the contents of the "guidelines"</li> </ul>
Input	<ul> <li>Dispatching JICA survey team</li> <li>Technical assistance to set up the certification system in the selected country</li> <li>Various cooperation from the selected country to set up the certification system</li> <li>Commitments to set up the fee-based Kaizen training/consultancy</li> </ul>
Outputs	<ul> <li>Draft of the "guidelines"</li> <li>Standardized exam collection based on the standardized curriculum as the output of WG2</li> </ul>

# Kaizen Handbook



"After a series of training was completed, recognition should be made to confirm that a person is qualified as a Kaizen Trainer having experience and skills required to provide Kaizen guidance for companies. "

Source: JICA Kaizen Handbook (p. 3-21)

#### Table 3.7-2 Recognition Requirements for Basic Trainers and Advanced Trainers

CRT	Attendance ratio : 90% or more;
	Written examination : 65 marks or more
ICT	Number of pilot enterprises to give Kaizen guidance :
	5 enterprises or more for both Basic Trainers and Advanced Trainers
	Number of visit to pilot enterprises:
	(1) Visits together with an expert: 80% or more;
	(2) Visits by Basic Trainers or Advanced Trainers alone: more than once /month for each enterprise
	Number of Kaizen guidance cases: Two or more per enterprise
	Report submission for each visit : 100%
	Case sheet submission: one or more case sheets /each enterprise
Skill Level	Evaluation by skill map :3.5 points or more on average; 2.0 point or more for all skills in selected skills
Training Period	Training Period :
	(1) Basic Trainers : 6 months
	(2) Advanced Trainers : 1 year (after certified as <i>Kaizen</i> Trainers)
	Attendance for regular meetings with an expert: 70% or more
0 1101	

Source: JICA Study Team

#### Table 3.7-3 Kaizen consultants Titles and qualification requirements

Title	Requirements
Principal <i>Kaizen</i> Consultant	<ul> <li>To complete Basic and Advanced <i>Kaizen</i> courses and have <i>Kaizen</i> consulting experience of over 5,000 hours.</li> <li>To pass the written and oral examinations.</li> </ul>
Senior <i>Kaizen</i> Consultant	<ul> <li>To complete Basic and Advanced <i>Kaizen</i> courses and have <i>Kaizen</i> consulting experience of over 3,000 hours.</li> <li>To pass the written and oral examinations.</li> </ul>
<i>Kaizen</i> Consultant	<ul> <li>To complete Basic and Advanced <i>Kaizen</i> courses and have <i>Kaizen</i> consulting experience of over 1,000 hours.</li> <li>To pass the written and oral examinations.</li> </ul>

#### Challenges

"This is a proposal as of preparation of this handbook and an actual certification system to be developed may be different: For example, a uniform certification system in Africa might be developed in the future."

Source: JICA Kaizen Handbook (p. 3-21)

Source: JICA Study Team

## Expected output of WG1



#### Objective

Developing a <u>certification guideline</u> that can be referenced by <u>African countries</u> which implement Kaizen and <u>newly introduce a</u> certification system for Kaizen trainers/consultants.

#### Structure (Tentative)

1.	Introduction
2.	Case study (member countries' case)
3.	Suggestion for developing certification system =>Extracting key elements from the case study (Not for unifying or standardizing the certification system)
4.	Summary

# Design for Pilot Program for WG 3

Activities	<ul> <li>The survey team is visiting the recommended companies in the selected countries to check the KPI sheet will be properly used and check the accuracy of the sheet.</li> </ul>
Duration	• 3 weeks x 3 times by JICA survey team until October 2023
Evaluation	<ul> <li>The survey team will check the availability &amp; accuracy of the current "semi- finalized" KPI sheet and finalize it based on the pilot activities</li> </ul>
Input	<ul> <li>Dispatching JICA survey team</li> <li>Recommendation of the companies to be visited from the selected countries</li> <li>The selected pilot countries are kindly required to make the trial of the KPI sheet before the survey team visits.</li> </ul>
Output	<ul> <li>Finalized version of KPI format</li> <li>Finalized version will be converted into the could data base style for the easy usage if the survey budget allows.</li> <li>Summarized data will be used for Africa Kaizen White Paper</li> </ul>

### Theme (WG) 3: Common KPIs

#### -How to express the Kaizen effect by financial figure-









There are factors other than Kaizen effect

#### Format to calculate automatically into the Kaizen effect by financial figure

	Company Informat	tion				
	Name	CODE				
ountry	Republic of Tunisia	33				
mpany	AAA company	33-00001				
ctor code	Manufacturing	1				
inufacturing Subsector Code	Electronics	16				
vice Subscetor Code	Service Subscetor Code	Code				
	ltem	Difinition				
	Minumum Wage/Hour	legal minimum wage	100	TND		
Pasia Condition			3,934.00	JPY		
Dasic Condition	Pilot Line coverge ratio	Gross profit base or Sales base	30%			
	Yearly Gross Profit	last year actual	1,000,000	TND		
Field	ltem	Difinition	Condition Before Kaizen	Condition After Kaizen	Improvement ratio	Output/Input Linite
T IEIG	Item	Dimition	Condition Defore Raizen	Condition Arter Naizen		output/input onits
	Output	Qty',Number of Customer,CS,Sales etc.	800	1,200		Daily
Key Indicators	Input (M-H)	Man-Hour(M-H)	200	180		Daily
of Pilot Line	Productivity(Output/M-H)		4.000	6.667	66.7%	
	Defect(%)	(Number of defect product/ Products Quantity)	5.50%	1.40%	-74.55%	
	Used Space	M <sup>2</sup>	300	250	-50	
	Space-Productivity		2.67	4.00	133.3%	1
			2101	100	22010/10	Time unit
Sub indicaor	Lead Time(Factory-in to Factory-out)	Second, Minite, Hour, Day	7.200	2.880	60%	PLS INPUT
of Pilot Line	Lead Time(Line-in to Line-out)	Second, Minite, Hour, Day	80	35	56%	PLS INPUT
	WIP(Qty')	The average number in the line	100	50	50%	
7200	OEE	AvilabilityxPerformance xQuality	68.00%	83.00%	22.06%	
	Inventory (from B/S)	Inventory Amount in B/S	500,000	230,000		
	Yearly Net Sales	Net sales	2,000,000	2,000,000		
Company -wise	Inventory Turnover(D/S)		91.3	42.0	54.0%	
Sub indicators						
Sub materia	Return ratio(%)	The number of return product/shipped Qty'	8.50%	2.30%	72.94%	
	ES score(point)		45	65	44.4%	
	Yearly Incident	The number of insident in work site	10	2	80%	

**GEMBA KPI** 

Pilot implementation undergoing for more improvements

	ł			
	name	Code	Sector Code	Subsector Code
Country	Republic of Tunisia	33		
Company	AAA company	33-00001	1	1
	Category	ltem	Figure	
	KPI A-1	Financial Improvement by Kaizen	472,080	JPY
	KPI A-2	Financial Improvement by Kaizen	7,868,000	JPY
			Improvement ratio	
Kayl	adiantar of Dilat Lina	Productivity Improvemen(per M-H)	66.7%	
Key Indicator of Pilot Line		Defect ratio improvement	74.5%	
		Productivity improvement(per Sapce)	60.0%	
	Sub indicaor	Lead time Reduction-1(F-in to F-out)	56.3%	
		Lead time Reduction-2(L-in to L-out)	50.0%	
	KPI A-1 KPI A-2 Key Indicator of Pilot Line Sub indicaor of Pilot Line	WIP Reduction		
		OEE improvement	22.1%	
		Inventry Reduction	54.0%	
	Company -wise	Return Ratio	72.9%	
	Sub indicators	Employee Satisfaction	44.4%	
		Incident(safety)	80.0%	





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* Evaluation D       Etrage       Autro-Numbering       Update date       2022/07/11         Comappy wise Finacial Performane	*	Company ID	51-9		r		SON	MEF-3 T	unisia		* Registed	person [	K-Dissel-			Updat	e		
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Net Sales(PY)       25,937,500       TNL       Net Sales(AKY)       30,625,000       TND         Gross Profit(PV)       TNL       Gross Profit(AKY)       TND       TND         End Inventors(PV)       TNL       ES survey Score(AKY)       TND       ES survey Score(AKY)       Gross Profit(AKY)       Gross Profit(AKY)       Store state       Close         Pilot Line/Product Performance       Return Ratic(AKY)       %       Return Ratic(AKY)       %       If you film the figure in input/output, please select period unit       If you film the figure in input/output, please input score ratic         Pilot Line/Product Performance       After Kaizen       After Kaizen       Score ratic Profit coverage ratio of the plot line         Pilot D Line /Product Name       Output (mmt)       Space WIP       Ratio       Time       Zero Base       %       Period unit       Mat Cost       OEE       Score WIP       Ratio       Return       Return Net Cost       Return       Net Cost       Period unit       Incut       Score WIP       Ratio       Return       Return Net Cost       Period unit       Incut       Return Net Co		Previo	ous Year R	Result	eriorii	lane		After Ka	izen year	1									
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	2. Calculate accumula	ited saved M-H			21111(1)	1417	
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	3 Culculate total effect	tive money from save	d M-H a				
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3-Space Saving	1. Reduced turnover (     (Inventory Amount/Ne     2.Calculate the profit f     Gross Profit / Inventor     3.Caluculate the effect     (A) X (B) X Inventory     If we have data     Floor Spac Data: OK     1. Calculate the saved     2. Calculate accumula     A1 +A2+A3 · · · · ·     3. Calculate the profit     (Gross Profit) greations we	D/S:Daily Suppy) et sales) <sub>previous year end</sub> that minimal amount of ry amount/365 ive profit which was m Amount about gross profit and floor GP Data: No Data I space by each activit ited saved space +An earned per square meter ar/ Floor square meter	Chrometer in last year	No Data ount)/ of inventory earn y reduction activ ofit by inventory er), we can calculate OK	=(A) [ =(B) [ itie y reduction [ monetary effect of s =(A) n [ =SUM(A)n [ =(S) [	0.00 0.0000 No Impact pace saving by following to 170.2 0.00	D/S TND
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3-Space Saving	1. Reduced turnover (     (Inventory Amount/Ne     2.Calculate the profit f     Gross Profit / Inventor     3.Caluculate the effect     (A) X (B) X Inventory     If we have data     Floor Spac Data: OK     1. Calculate the saved     2. Calculate accumula     A1 +A2+A3 · · · · ·     3. Calculate the profit     (Gross Profit) previous ye     3.Caluculate profit of i     SUM(A) <sub>n</sub> X (B)	D/S:Daily Suppy) et sales) <sub>previous year end</sub> that minimal amount of ry amount/365 ive profit which was m Amount about gross profit and floor GP Data: No Data I space by each activit ited saved space +An earned per square meter using the saved space	<ul> <li>Inventory am</li> <li>(Inventory am</li> <li>of the currency of</li> <li>ade by inventor</li> <li>=Effective pr</li> <li>space (square meter</li> <li>space Saving Data:</li> <li>y</li> <li>eter in last year</li> <li>for other valua</li> <li>=Effective profile</li> </ul>	No Data ount)/ of inventory earn y reduction activ of it by inventory ar), we can calculate ok ok ble job	=(A) [ =(B) [ itie ] monetary effect of s =(A) n [ =SUM(A)n ] =(S) [ activities ]	0.00 0.0000 No Impact pace saving by following to 170.2 0.00 US\$0.00	D/S TND
3-Space Saving	1. Reduced turnover (     (Inventory Amount/Ne     2.Calculate the profit f     Gross Profit / Inventor     3.Caluculate the effcti     (A) X (B) X Inventory     [f we have data     Floor Spac Data: OK     1. Calculate the saved     2. Calculate accumula     A1 +A2+A3 · · · · ·     3. Calculate the profit)     previous ye     3.Caluculate profit of f     SUM(A), X (B)	D/S:Daily Suppy) et sales) <sub>previous year end</sub> that minimal amount of ry amount/365 ive profit which was m Amount about gross profit and floor GP Data: No Data space by each activit ited saved space • +An earned per square meter using the saved space	c inventory am     f the currency of     ade by inventor     =Effective pr     space (square mete     space saving Data:     y      ceter in last year     for other valua     =Effective prof	No Data	=(A) IS ir =(B) /itie y reduction =(A) n =(A) n =(A) n =(S) activities 	0.00 0.0000 No Impact pace saving by following le 170.2 0.00 US\$0.00	D/S TND
3-Space Saving 4-Material Cost reductio	1. Reduced turnover (         (Inventory Amount/Ne         2.Calculate the profit f         Gross Profit / Inventory         3.Caluculate the effcti         (A) X (B) X Inventory         If we have data         Floor Spac Data:         0K         1. Calculate the saved         2. Calculate accumula         A1 + A2 + A3 · · · · ·         3. Calculate the profit of f         SUM(A), X (B)	D/S:Daily Suppy) et sales) <sub>previous year end</sub> that minimal amount of ry amount/365 ive profit which was m Amount about gross profit and floor GP Data: No Data space by each activit ited saved space • +An earned per square meter using the saved space	Crimer of the currency of the currency of the currency of the currency of ade by inventor     Effective pr     Effective pr     Space Saving Data:     y      correct of the currency of	No Data Outto a clicit a control of inventory earn outto a clicit a control of inventory offit by inventory er), we can calculate oK ble job it by space saving can calculate monet	=(A) IS ir =(B) /itie y reduction monetary effect of s =(A) n =(A) n =(A) n =(S) activities activities activities	0.00 0.0000 No Impact pace saving by following lo 170.2 0.00 US\$0.00	b/S TND pgic m <sup>2</sup> TND TND Yearly gic
3-Space Saving 4-Material Cost reductio	1. Reduced turnover (         (Inventory Amount/Ne         2.Calculate the profit f         Gross Profit / Inventory         3.Caluculate the effcti         (A) X (B) X Inventory         If we have data         Floor Spac Data:         0K         1. Calculate the saved         2. Calculate accumula         A1 +A2+A3 · · · · ·         3. Calculate the profit of i         SUM(A), X (B)         Image: Sum (A), X (B)         Image: Non-State Cost Data:         0K         Image: Non-State Cost Data:         0K	D/S:Daily Suppy) et sales) <sub>previous year end</sub> that minimal amount of ry amount/365 ive profit which was m Amount about gross profit and floor GP Data: No Data space by each activit ited saved space • +An earned per square meter using the saved space	Crimer of the currency of the currency of the currency of the currency of ade by inventor     Effective pr     Effective pr     Space Saving Data:     Y      correct of the currency of	No Data	=(A) IS ir =(B) /itie y reduction =(A) n =(A) n =(A) n =(S) activities ary effect of material	0.00 0.0000 No Impact pace saving by following lo 1770.2 0.00 US\$0.00	b/S TND pgic m <sup>2</sup> TND TND Yearly gic
3-Space Saving 4-Material Cost reductio		D/S:Daily Suppy) et sales) <sub>previous year end</sub> that minimal amount of ry amount/365 ive profit which was m Amount about gross profit and floor GP Data: No Data space by each activit ated saved space • +An earned per square meter using the saved space a of materia cost reduction a amount of material cost	Crimer of the currency of the currency of the currency of the currency of ade by inventor     Effective pr     Space (square metric square squar	No Data Outling Outling No Data Outling Outlin	=(A) (I) (I) (I) (I) (I) (I) (I) (I) (I) (I)	0.00 0.0000 No Impact pace saving by following le 170.2 0.00 US\$0.00 cost down by following lo	pgic m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> TND
3-Space Saving 4-Material Cost reductio		D/S:Daily Suppy) et sales) <sub>previous year end</sub> that minimal amount of ry amount/365 ive profit which was m Amount about gross profit and floor GP Data: No Data space by each activit ated saved space • +An earned per square meter using the saved space a of materia cost reduction a amount of material co er unit) X (putput uni	Characteristic of the currency of the currency of the currency of ade by inventor      Effective pr     Space (square metric of the currency of the curre	No Data Outling Outling No Data Outling Outlin	=(A) =(B) itie y reduction =(A) n =(A) n =SUM(A)n =(S) activities ary effect of material n at =(A) n =(A) n =(B)	0.00 0.0000 No Impact pace saving by following le 170.2 0.00 US\$0.00 cost down by following lo	pgic m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> m <sup>2</sup>
3-Space Saving 4-Material Cost reductio		D/S:Daily Suppy) et sales) <sub>previous year end</sub> that minimal amount of ry amount/365 ive profit which was m Amount about gross profit and floor GP Data: No Data space by each activit ated saved space • +An earned per square meter using the saved space a of materia cost reduction a amount of material co er unit) X (putput uni quantuty after kaizen	Characteristic of the currency of the currency of the currency of ade by inventor      Effective pr     Effective pr     Space (square metric of the currency of the curr	No Data	=(A) =(B) is ir =(B) itie reduction =(A) n =(A) n =(S) activities ary effect of material n at =(A) n =(A) n =(B) =	0.00 0.0000 No Impact pace saving by following le 170.2 0.00 US\$0.00 cost down by following lo	pgic m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> m <sup>2</sup> m <sup>2</sup>

	Company Name:			SOMEF-3										
	Country:		Tur	nisia		Code: 5	1	- III						
	Sub Sector:	Electrical P	rodi	uct/Equipme	nt			Editor Create date		2022/7/8				
		2				_								
	Total Company K	aizen Resul	t											
		Before K	aize	n	Af	ter Kaizen			Improver	nent ratio		Dif.		
	Gross Profit (each county's currency)													
	Inventory Turnover(D/S)													
	Return Ratio (%)													
	Incident(Number of Case)													
	Employee Satisfaction (ES Survey Score etc.)				_									
	Pilot Line/Model	Kaizen Resi	ılt											
Pilot	Kaizen Item	Before Kaizen		Afetr Kaizen		Kaizen Ratio		Output Qty'	Sub Total	Sub Total	Sub Total Mat. Cost	Productivity improvement	Scope Ratio	Perid
Produt/Line		05.00	<i>N</i>	07.53	01	0.00		atter kaizen	wi-m saving	opace Saving	Reduction	Impact -	(Productivity)	Productiv
NO.1	Productivity	95.02	%	97.57	%	2.69	%	976	0.27	405.00		0		Daily
No.1	Space Saving	401.80		276.80		▲ 31.11	%	976		125.00		0		
No.1	WIP Reduction	350.00		150.00		▲ 57.14	%					0		
No.2	Productivity	0.80	%	0.88	%	9.93	%	123	13.90			0		Daily
No.2	Space Saving	70.70		49.00		▲ 30.69	%	123		21.70		0	·	
No.2	WIP Reduction	200.00		90.00		▲ 55.00	%					0		
no.3	Productivity	1.31	%	1.31	%	0.00	%	144	0.00			0		Daily
10.3	Space Saving	70.00		46.50		▲ 33.57	%	144		23.50		0	•	
10.3	WIP Reduction	150.00		60.00		▲ 60.00	%					0		
							%							
							%							
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	Total M-H Saving	1	14.17	,		M-H Daily								
	Total Space Saving		170		1	m <sup>2</sup>								
					1									
	Total Mat.Cost Saving		0			IND								

# Thank you so much for your attention !!