

SYMAPRO CARIBBEAN WORKSHOP

Jamaica, March 19-23



SYMAPRO

Phase 3:

Integrated Measurement

Phases

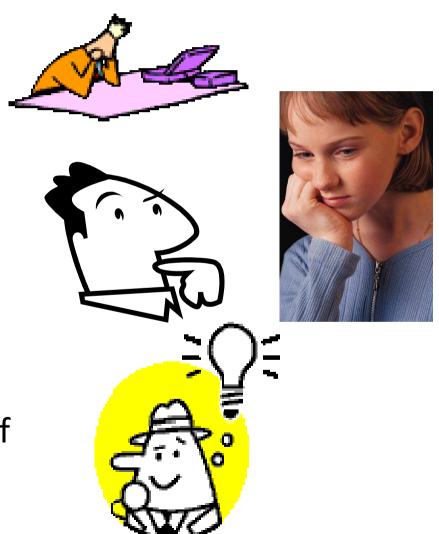
- 1. Objectives, Baseline and Working Climate
- 2. Integration and Marathon of Improvement
- 3. Integrated Measurement
- 4. Feedback and Training Capsules
- 5. Core Competencies
- 6. Preparing STAG
- 7. Training of STAG-Facilitators
- 8. Competency Standard: National or Company
- 9. Training and Certification of Assessors
- 10. Assessment and Certification of Workers
- 11. Competency based Compensation
- 12. Results and Impact Assessment

How to Identify the objectives and indicators?

 Derived from the Organizational Mission and Vision .

 Brainstorming on problems and solutions, focussing at organizational objectives

 Determination of indicators of the objectives workers can have an influence on.



Enterprise 'X'

General Objective: Reduce costs

Specific Objective: Reduce idle time in milling

Indicator: Idle time lost through bad

operations

Measurement Unit: Minutes

Conversion Graph

Indicator

Effectiveness

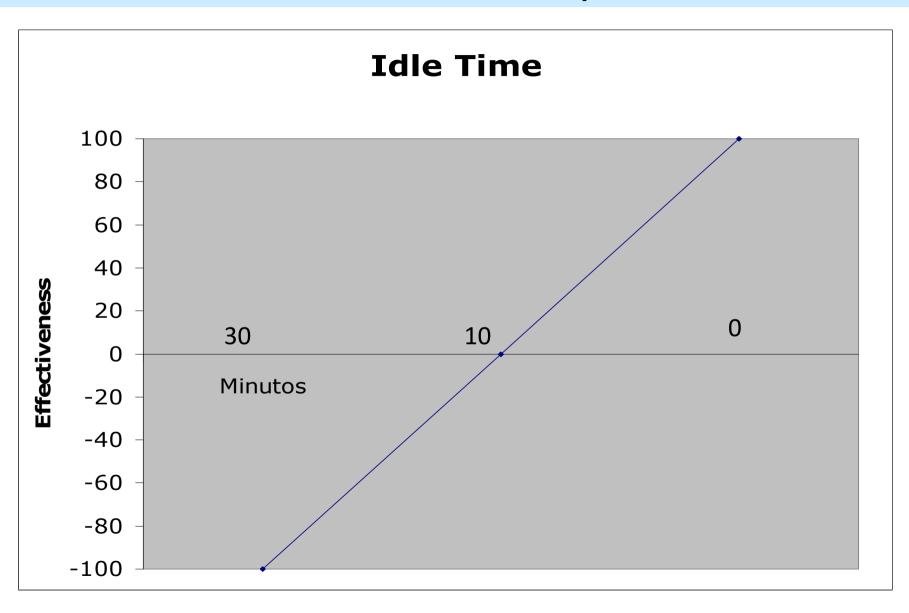


Eficiency

Indicator		The best	Not good or bad	The worst
Indicator	Effectiveness Points	100	11-	100
Indicator value				

	The worst	Not good or bad	The best
Effectiveness	-100	0	100
Idle time (Minutes)	30	10	0

Conversion Graph



How are effectiveness points determined?

- In this case the effectiveness is linear. But it is not always linear or proportional to the objective.
- The workers and the managers determine the points.

Indicator Value (I.V.)	Effectiveness Points (E.P.)
0	
4	
6	
8	
10	
15	
20	
25	
30	

How are effectiveness points determined?

- In this case the effectiveness is linear. But it is not always linear or proportional to the objective.
- The workers and the managers determine the points.

Indicator Value (I.V.)	Effectiveness Points (E.P.)
0	100
4	60
6	40
8	20
10	0
15	-25
20	-50
25	-75
30	-100

	Measurement Value	Effectiveness
Monday	5	
Tuesday	1	
Wednesday	20	
Thursday	10	
Friday	5	

Sum	
Average	

	Measurement Value	Effectiveness
Monday	5	50
Tuesday	1	90
Wednesday	20	-50
Thursday	10	0
Friday	5	50

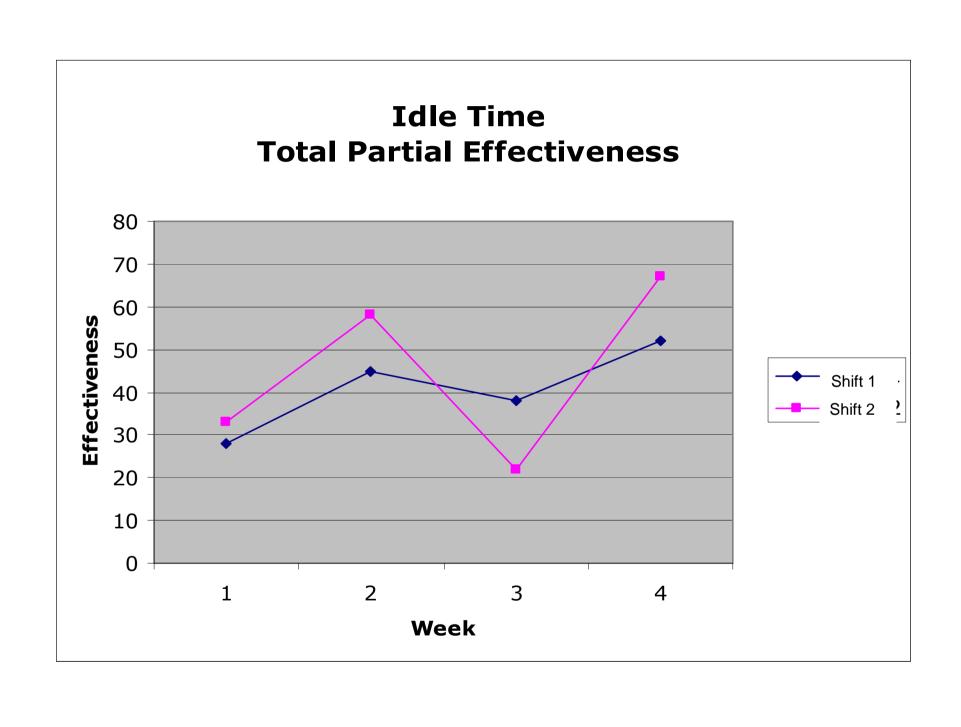
Sum	140
Average	28

Example: Effectiveness Table - Daily

Week: 1					
Indicator: Idle T	ime				
Unit: Minutes					
		Shift 1		Shift 2	
	Value	Effectiveness	Value	Effectiveness	
Monday	5	50	0	100	
Tuesday	1	90	5	50	
Wednesday	20	-50	25	-75	
Thursday	10	0	6	40	
Friday	5	50	5	50	
	•				
TOTAL		140		165	
Average		28		33	

Example: Effectiveness Table - Weekly

IDLE TIME					
EFFECT	EFFECTIVENESS POINTS				
Week Shift 1 Shift 2					
1	28	33			
2	45	58			
3	38	22			
4	52	67			
5	••	••			
6	••	••			
••	••	•••			
••	••	••			
Real Total	163	180			
Maximum possible total 4 weeks	400	400			
% achievement	41%	45%			



CHECK LIST: POINTS TO COMPLY WITH

- No smoking in work areas
- No chewing gum in work areas
- No eating in work areas (peanuts, seeds)
- No spitting near work areas
- No wearing rings or wathes in work areas (process)
- Keep lockers clean
- No glass objects in work areas
- No aluminium objects in work areas
- No rubbish on floors or equipment (steel wool, papers, etc.)
- No metal waste (nuts, screws, tubes, etc.)
- Clean bathrooms (toilet bowl, washbasin, toilet paper, dryfloor)

TOTALS

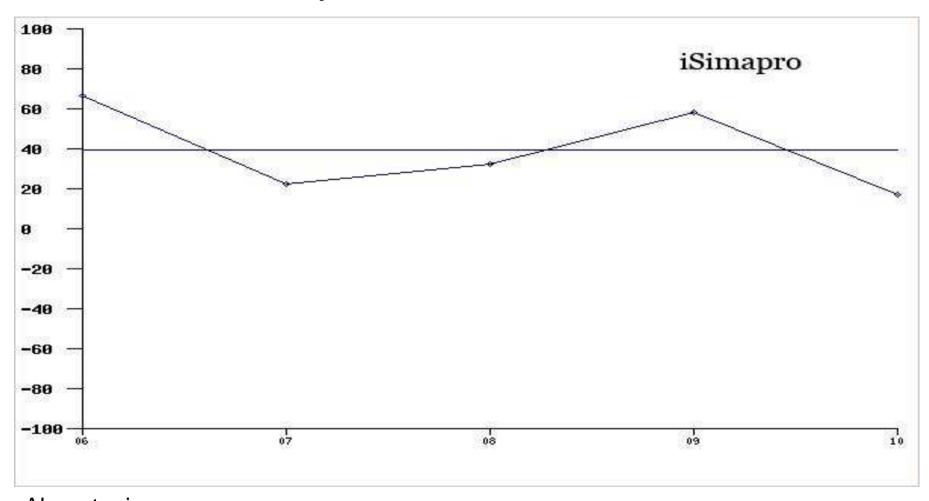
Example

Enterprise 'X'						
	Matrix of Indica	ators and Effectiv	eness			
Effec	Effectiveness Points -100 0 100					
Pro	duction Area					
Indicator	Unit of Measurement					
Idle Time Minutes per shift		30	10	0		
Rejects	% defective per shift	15	10	5		
Wear safety equipment	Number people without equip/shift	3	1	0		
Cleanliness and order	Observation list/shift	4	6	8		
Absenteeism People absent per shift		2	1	0		

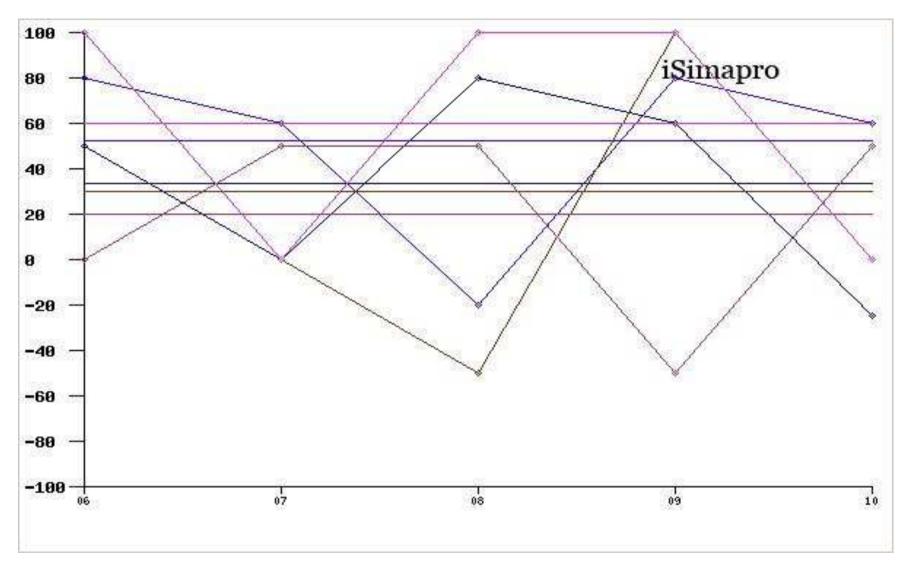
Excercise: Shift 1

	Idle Time	Rework	Use of H&S Equipment	Clean and Order	Absenteeis m
1	5	6	0	6	0
m	10	7	1	7	1
m	2	11	2	7	0
j	4	6	0	5	0
V	15	7	1	7	1

Daily Total Effectiveness



Absenteeism Clean and Order PPE Rework Idle Time



Absenteeism

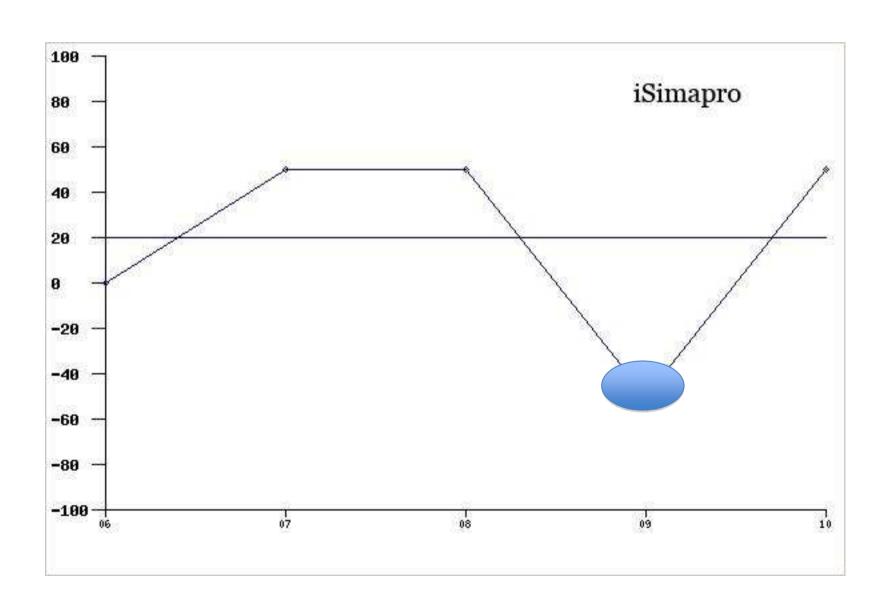
Clean and Order

PPE

Rework

Idle Time

Effectiveness Clean and Order

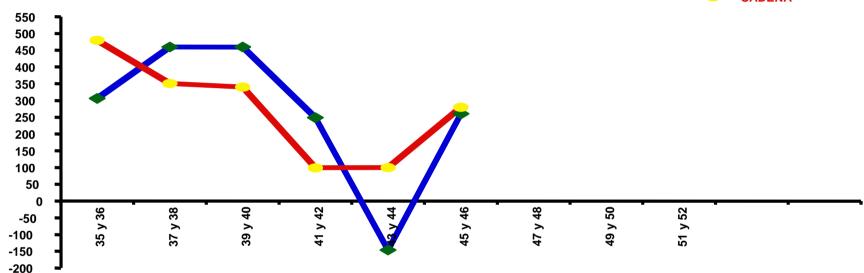


Total Effectiveness

EXAMPLE **SHIFTS**

Total Effectiveness





WEEKS	MARTINEZ	CADENA
31 y 32	306.00	480.00
33 y 34	460.00	351.00
35 y 36	460.00	340.00
37 y 38	249.00	99.00
39 y 40	-146.00	100.00
41 y 42	260.00	280.00
43 y 44		
45 y 46		
47 y 48		
49 y 50		
51 y 52		
AVERAGE	264.83	275.00

Thank you

