



Process Walk

Measuring Workstations





Instructions:

1. Visit the production service area/production line or workstation. Choose one operation. Use the Worksheet Template.
2. Apply the Time Study Procedure.
 - a) Calculate Sample Size if the data is available.

Sample Size	
Preliminary mean of observation time	34
Standard deviation of observed time	2
Confidence level required (z Value)	1.96
Maximum acceptable error	5%
	5

- a) Determine the Performance Ratings and Allowance factors.

	Performance Rating Factor	Allowance Factor
Manual Operation	100%	5%
Machine Operation	100%	5%
Process (Manual+Machine)	85%	8%
Working Hours	8.00	





Instructions:

1. Analyze the operation.
 - a) Select the operator
 - b) Time, collection and record data.

Operator ID	Task / Operation	Type of Operation	Cycle Time (seconds)					Ave Obs Time (sec)	Ave Obs Time (min)	Normal Time (min)	Standard Time (min)	UOM	Pouches
			1	2	3	4	5						Target Pouches/hr
1	Open the box with tubes	Manual	2	3	5	5	2	3.40	0.06	0.06	0.003		169,412
2	Fit box inside dispenser	Manual	5	3	5	7	6	5.20	0.09	0.09	0.004		110,769
3	Fill kanban bin with tubes	Manual	3	4	3	4	4	3.60	0.06	0.06	0.003		160,000
4	Pick up empty kanban bins	Manual	2	4	3	5	3	3.40	0.06	0.06	0.003		169,412
5	Take one tube and label it	Process	3	4	4	3	6	4.00	0.07	0.06	0.005		105,882
6	Place tube on bin	Manual	4	3	5	4	2	3.60	0.06	0.06	0.003		160,000
7	Pass tube to check weigher machine	Machine	3	3	4	3	3	3.20	0.05	0.05	0.003		180,000
8	Place 12 tubes in a case	Manual	4	5	4	3	5	4.20	0.07	0.07	0.004		137,143

2. Review the results
 - a) Cycle time
 - b) Normal and Standard Times
 - c) Expected target

Total Cycle Time	30.6 sec
	0.51 min
Total Normal Cycle Time	0.50 min
Total Standard Cycle Time	0.03 min
Expected Target	149,077 Pouches/hr

<--- Can be the used for Takt Time

