

Time Study Observation Form

Operation : Cut - to - size

Element No. and Description		Set board into vise				Saw ends				Remove board and stack			
Note	Cycle	R	W	OT	NT	R	W	OT	NT	R	W	OT	NT
	1	<input type="text"/>		55	578	100		60	<input type="text"/>				
	2					100		60	<input type="text"/>	105		60	<input type="text"/>
	3	110		<input type="text"/>	605	100		60	<input type="text"/>				
	4					100		60	<input type="text"/>	90		80	<input type="text"/>
	5												
	6												
	7												

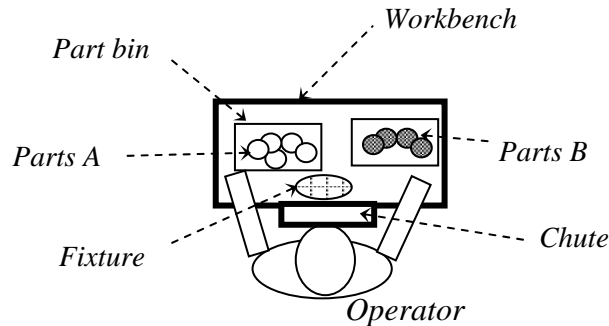
Summary

Total OT	<input type="text"/>	<input type="text"/>	<input type="text"/>
Rating	-	-	-
Total NT	1.183		1.350
No. of Observations	2	4	2
Average NT	<input type="text"/>	<input type="text"/>	<input type="text"/>
Allowance	<input type="text"/>	<input type="text"/>	<input type="text"/>
Elemental Std. time	<input type="text"/>	<input type="text"/>	<input type="text"/>
No. of Occurences	1	2	1
Standard time	<input type="text"/>	<input type="text"/>	<input type="text"/>

Total Standard Time (sum standard time for all elements)

Foreign Elements	Time Check	Allowance Summary		
(A) 0.30 min interrupt, check saw blade.	Finishing Time	08:47.0	Personal Needs	5
	Starting Time	08:40.0	Fatigue	4
	Elapsed Time	<input type="text"/>	Delays	5
	TEBS	1.50	Total Allowance %	14
	TEAF	0.60	Remarks :	
	Total Check Time	<input type="text"/>		
	Effective Time	<input type="text"/>		
	Ineffective Time	<input type="text"/>		
	Total Recorded Time	<input type="text"/>		
	Unaccounted Time	<input type="text"/>		
Recording Error %	<input type="text"/>			

4. Write the sequence models and their parameter indices, and then calculate the times used for each sequence in TMU.



a) (2 points) The operator is sitting on chair and prompt to start his work as shown above. Then he move both hands simultaneously to part bins (left hand to left bin and right to right bin), grasp one part (both are light object) from each bins, move to fixture, place part A into fixture and place part B on top of A simulataneously (place parts to fixture by loose fit manner).

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b) (2 points) Continued from a), the operator uses right hand to grasp part A and B (which already formed to one piece) from fixture and move it to chute, then release it to chute.

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5. (5 points) Complete the time study observation form shown on next page,(fill in 31 cells which have elipse) based on continuous timing

Part I – (5 points) Matching. Next to each definition in column A place the best term (letter only) from column B. The same answer can be used more than once, or none may apply (then use letter X).

Column A	Column B
1. Time for going to toilet falls under	A effective time
2. Standard time minus allowances =	B ineffective time
3. Time spent walking to and from the job to be time studied =	C observed time
4. Sum of foreign element times =	D fatigue
5. Normal time divides by the rating =	E learning curve
6. Sum of observed times =	F motion study
7. Any cessation in the work routine that does not occur in the typical work cycle	G normal time
8. A lessening in the capacity to work	H normal operator
9. Time the worker is not working	I extra allowance
10. A graphic presentation of the progress of production effectiveness over time	J delay
11. An operator who can achieve the established standard of performance when following the prescribed method and working at an average pace	K check time
12. Time recorded from a watch reading =	L idle time
13. Observed time multiply by rating =	M personal needs allowance
14. TEBS + TEAF =	N constant element
15. Use this time to determine wage payment	O unaccounted time
	P watch time
	Q rating factor
	R performance rating
	S production study
	T standard time
	X none apply

PRINCE OF SONGKLA UNIVERSITY
FACULTY OF ENGINEERING

Final Examination: Semester II

Academic Year: 2002

Date: February 26, 2003

Time: 1:30 - 4:30 PM

Subject: 225 - 346 Work Study

Room:

Before examinee do your job, please read this first.

1. You can bring the following materials into examination room :-
 - Lecture notes, textbooks.
 - Electronic calculator.
 - Electronic language translator.
2. Communication equipment, such as Personal Digital Assistant (PDA), mobile telephone, and laptop (notebook) computer, are NOT allowed.
3. You have to write answers to ALL questions.
4. You have to fill your name and ID on this page and on the top right of the remainder.
5. This exam is composed of 7 pages (log-log paper included) and total score = 25.

I have neither given nor received aid on this exam.
(ข้าพเจ้าจะไม่ให้ความช่วยเหลือ(ให้ลอกข้อสอบ)หรือรับความช่วยเหลือ(ลอกข้อสอบ)ใดๆ
จากผู้เข้าสอบคนอื่นๆในการทำข้อสอบวิชานี้)

signed (เซ็นชื่อ)

First name Mr/Ms lastname

Student ID IE MfE

Score (fill by lecturer)

Part I		Part II		
points	earn	Q	points	earn
5		1	3	
		2	4	
		3	4	
		4	4	
		5	5	
			20	