## PRINCE OF SONGKLA UNIVERSITY

# FACULTY OF ENGINEERIJNG

Final examination: semester 1

Academic Year: 2004

Date: October 11, 2004

Time: 9.00-12.00

Subject: 225-452 Cost

Analysis

Room: R 300

### **Instruction**

5. Attempt all questions.

6. write answers in this examination paper.

7. All materials are allowed in to the examination room.

8. The points are as follows:

Question No	1	2	3	4	
Full points scored	35	40	14	35	
Scored					

ทุจริตในการสอบ โทษขั้นต่ำคือปรับตกในรายวิชาที่ทุจริตและ พักการเรียน 1 ภาคการศึกษา

Boonrueing Manasurakarn

Instructor

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Nam	e		ID. Number		Department	
1. Materials requisition number 001		001	Date	September 25, 2004		
Job number to be charge 1ABC						
Departi	ment M	illing				
	Description	on Qua	ntity	Unit cost		
		(uı	nits)	(baht)		
	X hous	sing	10	12,500		
Y connector		tor	10	8,000		
Time ticket number 123 Date September, 2004						
Employee Rose			Station	n 2		
Time						
Started	Ended	completed	Rate	Job nu	ımber	
8.00	12.00	4.0	₿200	1AB	С	
13.00	15.00	2.0	200	3BC	F	
15.00	17.00	2.0	200	main	tenance	
Totals						

Sups

Time ticket number 214			Date September, 2004	
Employe	e	Lychee		Station 6
		Time		
Started	Ended	completed	Rate	Job number
8.00	10.00	2.0	<b>B</b> 180	2BDE
10.00	12.00	2.0	180	5DAC
13.00	17.00	4.0	180	1ABC
Totals				

The company has estimated its total manufacturing overhead costs will be 400,000 baht for the year and its total direct labor-hours will be 400.

- 1. Prepare the job cost sheet (of 1ABC).
- 2. How much is the unit product cost?

(35 points)

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The following activity took place in CNC department in June, several months into the production of new model of product:

### **CNC** Department

		Percentage complete	
	units	materials	conversion
Work in process, June 1,	400	60%	25%
Units started into production during June	4,000		
Units completed during June and			
transferred to the next department	3,600	100%	100%
Work in process, June 30	600	60%	40%
Costs in the beginning inventory:			
Materials cost	10,000	baht	
Conversion cost	4,000	baht	
Cost added to production during June :			
Materials cost	450,000	baht	

Compute the cost per equivalent unit using the weight-average method, and Product Report.(40 points)

360,000

baht

Note: Analysis step by step.

Conversion cost

Supor

### 3. A company has following data:

### January

- 1. purchase goods 60,000 baht.
- 2. purchase raw materials 120,000 baht.
- 3. purchase a copier 300,000 baht.
- 4. water supply, electric expenses 5,000 baht.
- 5. company sells all kinds of products 40,000 baht.

### February

- 1. water supply, electric expenses 4,000 baht.
- 2. company sells all kinds of products 600,000 baht.

VAT is 7%

Compute the VAT of January and February. (14 points)

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4. The XYZ corporation manufactures two products, A and B, in a centralized manufacturing facility. The production process requires very little time for either product so consequently work in process inventory is negligible and is not considered in the planning and budget process.

The following direct materials and direct labor costs have been estimated for product A and B are given in table 1.

#### Table 1

#### **Production Cost Data**

Direct materials: 12 pounds of materials No 1 x \$ 2.25 per pound

Direct labor: 4 hours of direct labor x \$ 8.00 per hour

Manufacturing overhead: applied based on direct labor hours

The balance sheet and sales budget are given below:

Support

# XYZ Corporation

# Balance Sheet

# January 1, 2003

### Assets

Cash		200,000			
Accounts receivable		1,200,000			
Direct materials:					
No 101 180,000 pounds@ \$1.50 per pou	and = $270,000$				
No 102 200,000 pounds@ \$ 1.10 per pou	and = $220,000$	490,000			
Finished goods:					
A; 28,000 <u>units@\$57.00</u> per unit =	1,596,000				
B;20,000 <u>units@\$84.20</u> per unit =	1,684,000	3,280,000			
Fixed assets:					
Accumulated depreciation	29,600,000				
Total asset	7,400,000	22,200,000			
		27,370,000			
Liabilities and Equity					
Accounts payable-direct materials purchase	s	800,000			
Income taxes payable	400,000				
Common stock		16,000,000			
Retained earnings	10,000,000				
Total liabilities and equity	27,370,000				

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## XYZ Coporation

### Sales budget

### For the ended December 31, 2003

	Budgeted	Budgeted	Budgeted
Product	Sales units	Sales price	Sales Dollars
A	110,000	140	15,400,000
В	140,000	100	14,400,000
Total	250,000		29,800,000

The rate per direct labor hour of supplier, repairs, indirect labor and other are \$2.0, 0.8, 1.5, and 0.4 respectively.

Estimated direct materials ending inventory for purchase budget :  $Noldsymbol{0}101 = 90,000$  pounds and  $Noldsymbol{0}102 = 150,000$  pounds.

### Required

- 1. Prepare the production budget.(7 points)
- 2. Direct materials budget.(9.5 points)
- 3. Direct labor budget.(8 points)
- 4. Manufacturing overhead budget.(10.5 points)

(total 35 points)

July

Butol

Lupop