Cost and Managerial Accounting

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HW 1 E2-28, P2-44, P2-46, P2-56

Chapter 1 & 2 reading: 100% complete

E2-28

1) Prepare a schedule of cost of goods manufactured

Direct material:

Raw-material inventory \$70,000

Add: Purchase of raw material 380,000

Raw material available for use 450,000

Deduct: raw-material inventory, December 31 90,000

Raw material used \$360,000

Direct labor \$540,000

Manufacturing overhead:

Indirect material 23,000

Indirect labor 35,000

Depreciation on plant and equipment 132,000

Utilities 30,000

Other <u>40,000</u>

Total manufacturing overhead <u>260,000</u>

Total manufacturing costs \$1,160,000

Add: work-in-process inventory, January 1 210,000

Subtotal 1,370,000

Deduct: work-in-process inventory, December 31 <u>240,000</u>

Cost of goods manufactured \$1,130,000

2) Prepare a schedule of cost of goods sold	
Finished-goods inventory, January 1	
Add: Costs of goods manufactured	\$ 190,000
Cost of goods available for sale	<u>1,130,000</u>
Finished-goods inventory, December 31	\$1,320,000
Cost of goods sold	200,000
5us soig	\$1,120,000
3) Prepare an income statement	
Sales revenue	\$ 1,950,000
Less: cost of goods sold*	1,120,000 1,120,000
Gross margin	830,000
Selling and administrative expenses	<u>190,000</u>
income before taxes	640,000
income tax expense	<u>224,000</u>
net income	\$ 416,000
P2-44	
1) Manufacturing overhead: Indirect labor building depreciation (기도/) [other selling and administrative expenses] income other factory costs:	230,000 200,000 (50,000 420,000 700,000 1,550,000 (,080,000
2) Cost of goods manufactured	1/9/0,000 ((0.00,00
Direct material:	
Raw-material inventory, January 1 st \$ 33	,000 *deproxation
Add: purchase of raw material 400,	.000 200∞
Raw-material available for use \$ 43	3,000 / 75/ 4/2459198

Deduct: raw-material inventory, December 31st

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15% Sha off off Sha exp. 50,000

<u>38,000</u>

Raw-material used	
Direct labor	395,000
Manufacturing overhead:	525,000
Total manufacturing costs	<u>1,550,000</u> 1,080,000
Add: work-in-process	\$ 2,479,000 2000,00
Add: work-in-process inventory, January 1 Subtotal	85,000
	\$ 2,555,000
Deduct: work-in-process inventory, December 31 Cost of goods manufactured	<u>135,000</u>
or goods manufactured	\$ 2,428,000 (,৭৮০,০০০
3) Cost of goods sold	
Finished-goods inventory, January 1	\$ 220,000
Add: cost of goods manufactured	<u>2,420,000</u>
Cost of goods available for sale	2,640,000
Finished-goods inventory, December 31	191,200
Cost of goods sold	\$ 2,448,800 (97%,&~
4) Determine the net income for 20x1, assuming a 40% income tax rate	
Sales revenue	\$ 3,250,000
Less: Cost of goods sold	2,448,800 (,978,800
Gross margin / SLA exp.	801,260 1,271,200
Gross margin Selling and administrative expenses (SLA exp. Selling and administrative expenses (15/.) Other SLA exp.	279,000 740,000
Income before taxes Other S&A EXP.	531,201 571,200
Income tax expense	212,480.4
Net income	318,720.& 718,720
O.5 Determine the number of completed units manufactured during the year	
1375 – 1195 = 180	
Ending F.G Inv. = Beginning 7.6 Inv. + 2 - Sales unit	
1195 = 1375 + 2-10000	
: x=980	

P2-46

Fixed costs : 2920000 1,200,000

Finished Goods inventory X Average cost of production

Variable cost : 210

/ X NO _

1. Determine the cost of the December 31 finished-goods inventory

= 1,040,000

(210 * 24,000 + 2930000) / 24,000 * 4000 = 1,328,333.333 \$ (,04000

2. Compute Scranton Refrigeration's net income for the current year ended December 31 (20,000*370-1,328,333.333)*0.6=3,643,000 290,000

- 3. What will be the effect on
 - a. the direct labor cost does not change.
 - b. The fixed manufacturing overhead cost does not change
 - c. The fixed selling and administrative cost does not change
 - d. The average unit cost of production increases, since we are paying the same amount of fixed cost while producing less.

P2-56

** Out of pocket cost ** A

- 2) Differential cost
- 3Y Opportunity cost b
- 4) Marginal cost
- 5) Average cost
- 6) Marginal cost
- 7) Sunk cost

Income Statement

Sales Reu (Sales Unit X ILDA7774)

COGS (Sdes Unit KFLY)

Gross Margin

(S&A exp.)

Tocome before taxes

tax (40%)

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