Solution Manual for Managerial Accounting 10th Edition Crosson Needles 1133940595 9781133940593

Full Link Download:

Test Bank:

https://testbankpack.com/p/test-bank-for-managerial-accounting-10th-edition-crosson-needles-1133940595-9781133940593/

Solution Manual:

https://testbankpack.com/p/solution-manual-for-managerial-accounting-10th-edition-crosson-needles-1133940595-9781133940593/

Ma	Managerial Accounting 10th Edition by Crosson and Needles						
	Solutions Manual						
Discu	ussion Questions						
DQ1.	The accounting concept of cost measurement focuses on determining the amount						
	of the cost. The accounting concept of cost recognition determines when a cost						
	should be recorded. And, the matching concept compares revenues with the costs						
	that were required to generate them.						
DQ2.	Job order costing recognizes production costs for specific jobs; process costing						
	first traces these costs to processes, departments, or work cells and then assigns						
	costs to products. Job order costing measures cost for each completed unit while						
	process costing measures cost in terms of units completed during a specific period.						
	Job order costing uses a single Work in Process Inventory account to summarize						
	the cost of all jobs in process while process costing uses many Work in Process						
	Inventory accounts, one for each process, department, or work cell. Job order						
	costing is used by companies making special or unique products or services while						
	process costing is used by companies making similar or identical products or in						
	long production runs.						
DQ3.	The matching rule tracks or matches costs against the revenues they generate each						
	period. Costs flow into and out of the inventory accounts adhering to this rule.						
	Direct Materials . When direct materials arrive, the cost of the items increases the						
	Materials Inventory account. Following a materials request, the items requested are						
	issued to the production departments. Direct materials costs then decrease the Ma-						
	terials Inventory account and increase the Work in Process Inventory account. In						
	addition, the costs of the requested materials decrease the appropriate accounts						
	in the materials subsidiary ledger and increase the appropriate job order cost cards.						
l	in the materials substituting ledger and increase the appropriate job order cost cards.						
	Direct Labor. When incurred, direct labor costs increase the Work in Process Inven-						
	tory account and, at the same time, increase the appropriate job order cost cards.						
	Overhead . An estimated amount of overhead increases the Work in Process Inven-						
	tory as work is done. The completed cost of goods produced decrease Work in Proc-						
	ess Inventory and increase Finished Goods Inventory. When goods are sold, their						
	costs are matched against the revenues generated. Cost of Goods Sold increases						
	and Finished Goods decreases.						
DQ4.	Estimated and actual overhead costs are recognized and measured using the four						
∠ ₹ 1.	steps. The four-step process involves planning an estimated rate at which overhead						
	costs will be assigned to products or services, assigning overhead costs at this pre-						

determined rate to products or services during production, measuring actual overhead costs as they are incurred, and reconciling the difference between the actual and applied overhead costs.

16-1

© 2014 Cengage Learning. All Rights Reserved. May not be scanned, copied, duplicated, or posted to a publicly accessible website, in whole or in part.

Discussion Questions (Concluded)

DQ5. When managers plan, information about costs helps them develop budgets, establish prices, set sales goals, plan production volumes, estimate product or service unit costs, and determine human resource needs. Daily, managers use cost information to make decisions about controlling costs, managing the company's volume of activity, ensuring quality, and negotiating prices. When managers evaluate results, they analyze actual and targeted information to evaluate performance and make any necessary adjustments to their planning and decision-making strategies. When managers communicate with stakeholders, they use unit costs to determine inventory balances and the cost of goods or services sold for the financial statements. They also analyze internal reports that compare the organization's measures of actual and targeted performance to determine whether cost goals for products or services are being achieved.

Cl ₂											
Snc	Short Exercises										
SE1	. Job Order V	ersı	ıs Process (Costi	ng S	ystems					
a.	process d. job order										
b.	job order			e.	•	cess					
c.	process			f.	job	order					
SE2	. Transaction	s in	a Manufact	u <u>rer'</u> :	s Job	Order Cost	ing Syst	tem			
	Dr Motorials	lov	antary Cr	^	···nto	Davabla					
a. b.	Dr. Materials Dr. Work in F					-					
D. C.	Dr. Work in F					• •					
d.	Dr. Work in F						itoi y				
u.	Di. Hork	100		,ı y , C		Cilicua					
SE3	. Transaction	s in	a Manufact	urer':	s .lot	Order Cost	ina Syst	tem			
0_0				u. c.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Older Goo.	ing Cyc.				
	Work in F										
	Inven	tory			Overhead						
(a)	34,000		<u> </u>		(a)	18,000	(b)	76,080			
(b)	76,080										
				+	 	Payroll	Payable	e			
							(a)	52,000			
							(-)				
SE4	. Accounts fo	r Ja	h Order Cos	stina							
	Ī										
1.	Dr. Work in F										
2.	Dr. Work in F					· · · · ·	е				
3.	Dr. Materials					Payable					
4.	Dr. Overhead										
5.	Dr. Work in F										
6.	Dr. Finished	God	ods Invento	ry, Cr	r. Wo	rk in Proces	s Inven	tory			

				Job Order:	16
	JOE	B ORDER COST	CARD		
	(Custom Comput	ters		
	K	owloon, Hong K	Cong		
Customer:	L. Kim	Batch:		Custom:	X
Specifications:	5 Computer Sy	stems			
Date of Order:	Date of Order: 4/4/2014		Date o	of Completion:	6/8/2014
		Previous	Current	Cost	
Costs Charged to J	ob	Months	Month	Summary	
Direct materials		\$ 540	\$ 820	\$1,360	
Direct labor	340 620 960			960	
Overhead applied		<u>880</u>	<u>550</u>	<u>1.430</u>	
Totals		<u>\$1.760</u>	\$1,990	\$3,750	
Units completed		1		<u>÷ 5</u>	
Product unit cost				<u>\$ 750</u>	
Units completed	α in a Service Orga		V 1,000	<u>÷ 5</u>	
	eivable, Cr. Revenu		sanina Sanja	206	
	ess Inventory, Cr. A			,63	
	ess Inventory, Cr. A		-		
I DI. WOLK III PIOCE	:33 IIIV CIILUI Y, UI. U	aən			

SE7. Job Order Costing with Cost-Plus Contracts Job Order: **A7 JOB ORDER COST CARD Doremus Tax Service** Puyallup, Washington Arthur Farnsworth Χ **Customer:** Batch: **Custom: Annual Individual Tax Return** Specifications: Date of Order: 3/24/2014 4/8/2014 **Date of Completion: Previous** Current Total **Costs Charged to Job Months** Month Cost Client interview: **Supplies** \$ 10 **\$** — \$ 10 Labor 50 60 110 ___20 44 24 Overhead (40% of interview labor costs) \$ 84 \$164 \$ 80 **Totals** Preparation of return: **Supplies \$**— \$ 16 \$ 16 Computer time 12 12 240 240 Labor 120 120 Overhead (50% of preparation labor costs) <u>\$388</u> **\$388 Totals** <u>\$ —</u> **Delivery:** <u>\$ —</u> <u>\$8</u> <u>\$8</u> **Postage** \$8 \$8 **Totals** <u>\$ —</u> **Total Cost Summary to Date** Cost **Client interview** \$164 Preparation of return 388 **Delivery** ____8 Total \$560 112 Profit margin (20% of total cost) \$672 Job revenue

Applied overhead					\$27,000
Less actual overhead					25.870
					· ·
Overapplied					<u>\$ 1,130</u>
Since the overapplied am	ount is immate	rial (I	ess than 5% of actual ov	verhead), the Cost	of
Goods Sold account sho		•		•	
overhead costs.					
050 0 11 10					
SE9. Computation of Ove	rnead Rate				
Predetermin	ed Overhead		Total Estimated Ove	rhead Costs	
Rate per Ser	vice Request =		Total Estimated Serv		
			\$18,290		
	=	•	3,100 service requests		
	=	= \$	5.90 per service reque	st	
	<u> </u>				
SE10. Allocation of Overh	ead to Producti	ion			
Overhead costs applied:					
		\$4	per direct labor hour		
	x 1.	.200	direct labor hours		
	\$4.	.800			
	<u></u>				
SE11. Uses of Unit Cost II	nformation				
a. yes					
b. yes					
c. yes					

	unais and Cat A							
EXE	ercises: Set A							
E1A	Product Costing							
a.	yes	f.	no					
b.	no	g.	no					
C.	yes	h.	no					
d.	yes	i.	yes					
e.	yes	j.	yes					
E2A	Costing Systems: Industry Lini	kage						
a.	process	e.	job order					
b.	process	f.	process					
C.	job order	g.	process					
d.	job order	h.	process					
E3A	. Costing Systems: Industry Lini	kage						
a.	process	e.	process					
b.	job order	f.	process					
C.	process	g.	job order					
d.	job order	h.	job order					
E4A	. Job Order Cost Flow							
The	cost flow of each of the three pr	odu	ct cost elements and the Work in Process Inventory					
	ount can be described as follows		······································					
			arrive, the cost of the items is debited to the Mate-					
			erials request, the items requested are issued to					
			erials costs are then transferred from the Materials is Inventory account. In addition, the costs of the					
	-		the appropriate accounts in the materials sub-					
	ary ledger and added to the app		••					
		•	•					
			r costs are charged to the Work in Process Inven-					
tory	account and, at the same time,	to th	e appropriate job order cost cards.					
Ove	erhead. All overhead costs, inclu	ding	indirect materials and indirect labor, are charged					
to t	he Overhead account.							
Ove	erhead is applied to production u	sina	a predetermined overhead rate. Overhead applied					
			ory account and credited to the Overhead account.					
			same time to reflect overhead charges.					
1//~	rk in Process Inventory All pres	luot :	costs flow through the Work in Process Inventory					
			mulated on job order cost cards. When an order					
			on the job order cost card) is transferred from the					
			e Finished Goods Inventory account. The job order					
			Work in Process Inventory subsidiary ledger, and					
	used to undate the Finished Goods Inventory subsidiary ledger							

used to update the Finished Goods Inventory subsidiary ledger.

			Account Analys				
1.							
	Materials	Inventory		W	ork in Proc	ess Inven	tory
Beg. bal.	40,000	(a)	28,800	Beg. bal.	9,000		
(c)	8,400	(c)	8,400	(a)	28,800		
				(b)	8,000		
				(d)	9,600		
	Overl	head			Payroll	Payable	
(b)	2,600	(d)*	9,600			(b)	10,600
(c)	8,400			•			•
	Accounts	Payable					
		(c)	8,400				
2.	20% = \$9,600						
Work in Pro	cess Invent	ory accou	nt:				
Beginning b	palance, July	1					\$ 9,000
Debits durin	ng July:						
Direct r	naterials						28,800
Direct I	abor						8,000
Overhe	ad						9,600
							\$55,400
Less transfe	ers to Finish	ed Goods	Inventory				45,000
	nce, July 31		-				\$10,400

	JUNE				Jl	JLY	•		
M	Materials Inventory				Materials Inventory				
(a) Beg. bal.	2,939	Requests:		(e) Beg. bal.	3,014		Requests:		
Purchases	5,100	Direct materials	5,025	Purchases	6,216		(g) Direct materials	6,602	
End. bal.	3,014			End. bal.	2,628				
Work	in Process Ir	nventory		W	ork in Prod	ess	s Inventory		
Beg. bal.	8,605	(c) Completed	15,701	(f) Beg. bal.	8,639		Completed	21,861	
Direct materials	5,025			(g) Direct materials	6,602				
Direct labor	4,760			Direct labor	5,540				
(b) Overhead	5,950 *			(h) Overhead	6,925	**			
(d) End. bal.	8,639			(j) End. bal.	5,845				
Finis	hed Goods Ir	ventory		Fi	nished Go	ods	Inventory		
Beg. bal.	7,764	Cost of goods sold	16,805	Beg. bal.	6,660		(i) Cost of goods sold	25,006	
(c) Completed during period	15,701			Completed during period	21,861				
End. bal.	6,660			End. bal.	3,515				
* \$4,760 × 125% = \$5,950									
** \$5,540 × 125% = \$6,925									

	Materials	nventory					
Beg. bal. 142,000 Used							
(a) Purchases	164,000						
End. bal.	50,000						
	Work in Proce	ess Inventory					
Beg. bal.	66,000	(c) Completed during period	924,400				
Direct materials	256,000						
Direct labor	390,000						
(b) Overhead applied	351,000 *						
End. bal.	138,600						
	Finished Goo	ds Inventory					
Beg. bal.	129,000	Cost of goods sold	953,400				
(c) Completed during period	924,400	_					
(d) End. bal.	100,000						

1. and 2.							
	Materials	Inventory		W	ork in Proc	ess Inventory	
6/1	1 300 6/4 290			6/4	250	6/16	2,050
6/2	50			6/15	1,000		
				6/15	800		
End. bal.	60			End. bal.	_		
Fi	inished God	ods Inventory			Over	head	
6/16	2,050	6/20	1,460	6/4	40	6/15	800
End. bal.	590			6/10	350	6/30	70
				6/15	300		
				6/30	180		
				End. bal.	_		
	Ca	sh		Accounts Receivable			
		6/10	350	6/20	2,000		
		End. bal.	350	End. bal.	2,000		
				Acc	cumulated I	Depreciation—	
	Prepaid I	nsurance			Mach	inery	
		6/30	30			6/30	150
		End. bal.	30			End. bal.	150
	Accounts	s Payable			Payroll	Payable	
		6/1	300			6/15	1,300
		6/2	50			End. bal.	1,300
		End. bal.	350				
	Cost of G	oods Sold			Sa	les	
6/20	1,460					6/20	2,000
6/30	70					End. bal.	2,000
End. bal.	1,530					<u> </u>	

					Job Order:	Z-6				
		JO	B ORDER COST	CARD	-					
Storage Company										
Customer:	Cedar	Safe, Inc.	Batch:		Custom:	Х				
Specifications:	Cedar	Storage Cabine	ets per Custome	er						
Date of Order:	2/10/2	2014		Date o	f Completion:	2/24/2014				
				Previous	Current	Total				
Costs Charged	to Job			Months	Month	Cost				
Direct materials										
Cedar					\$ 8,000					
Pine					6,000					
Hardware					2,000					
Assembly su	upplies				<u> 1.000</u>					
Total direct	material	s			<u>\$17.000</u>	\$17,000				
Direct labor:										
Sawing					\$ 3,000					
Shaping					2,000					
Finishing					2,500					
Assembly					3.000					
Total direct	abor				<u>\$10.500</u>	10,500				
Overhead:					<u> </u>					
(\$20.00 p	er mach	nine hour)								
Sawing (hours)			\$ 2,400					
Shaping (hours)			4,200					
Finishing (hours)			3,000					
Assembly (50 l	hours)			<u> 1.000</u>					
Total overhe	ad				<u>\$10.600</u>	10,600				
Total cost						\$38,100				
Units complete	d					<u>÷ 50</u>				
Product unit co	st					\$ 762				

tal actual manufacturing costs:	
Liability insurance, manufacturing	\$ 3,500
Depreciation, manufacturing equipment	5,000
Direct materials	34,000
Indirect labor, manufacturing	3,600
Indirect materials	2,000
Heat, light, and power, manufacturing	2,500
Fire insurance, manufacturing	2,400
Rent, manufacturing	4,000
Direct labor	20,000
Manager's salary, manufacturing	4.800
Total manufacturing costs	<u>\$81,800</u>
mputation of product unit cost: \$81,800 / 40,900 units = \$2.00 per unit	
1A. Computation of Product Unit Cost tal actual manufacturing costs:	
1A. Computation of Product Unit Cost tal actual manufacturing costs: Manufacturing utilities	· · · · · · · · · · · · · · · · · · ·
1A. Computation of Product Unit Cost tal actual manufacturing costs: Manufacturing utilities Depreciation, manufacturing equipment	250
1A. Computation of Product Unit Cost tal actual manufacturing costs: Manufacturing utilities Depreciation, manufacturing equipment Indirect materials	250 150
IA. Computation of Product Unit Cost tal actual manufacturing costs: Manufacturing utilities Depreciation, manufacturing equipment Indirect materials Direct materials	25 15 1,00
IA. Computation of Product Unit Cost tal actual manufacturing costs: Manufacturing utilities Depreciation, manufacturing equipment Indirect materials Direct materials Indirect labor	250 150 1,00 400
tal actual manufacturing costs: Manufacturing utilities Depreciation, manufacturing equipment Indirect materials Direct materials Indirect labor Direct labor	250 150 1,00 400 1,20
tal actual manufacturing costs: Manufacturing utilities Depreciation, manufacturing equipment Indirect materials Direct materials Indirect labor Direct labor Insurance, manufacturing plant	\$ 200 250 150 1,00 400 1,20 300
tal actual manufacturing costs: Manufacturing utilities Depreciation, manufacturing equipment Indirect materials Direct materials Indirect labor Direct labor Insurance, manufacturing plant Rent, manufacturing plant	250 150 1,00 400 1,20 300
tal actual manufacturing costs: Manufacturing utilities Depreciation, manufacturing equipment Indirect materials Direct materials Indirect labor Direct labor Insurance, manufacturing plant	1, 1, 2, 2,
tal actual manufacturing costs: Manufacturing utilities Depreciation, manufacturing equipment Indirect materials Direct materials Indirect labor Direct labor Insurance, manufacturing plant Rent, manufacturing plant	25 15 1,00 40 1,20

E12	2A. Computation of Product Unit Cost						
1.	Dude (Corporation					
	Special (Cost Analysis					
		Job (Job Order Cost Cards				
		Job B-2	Job B-3	Job B-4			
	Direct materials:						
	Fabric Q	\$ 1,000	\$ 1,800	\$17,600			
	Fabric Z	2,000	2,200	13,400			
	Fabric YB	<u>5.000</u>	6.000	2.000			
	Total	\$ 8.000	\$10,000	\$33,000			
	Direct labor:						
	Garment maker	\$ 4,500	\$ 8,000	\$10,200			
	Layout	2,500	7,000	9,800			
	Packaging	<u>3.000</u>	<u>5.000</u>	<u>5.000</u>			
	Total	<u>\$10.000</u>	\$20,000	\$25,000			
	Overhead:						
	150% of direct labor costs	<u>\$15.000</u>	<u>\$30.000</u>	<u>\$37.500</u>			
	Total cost	<u>\$33.000</u>	\$60,000	\$95,500			
2.	Units produced	<u>÷ 500</u>	<u>÷ 1.200</u>	÷ 500			
	Product unit cost	<u>\$ 66.00</u>	\$ 50.00	\$191.00			

TOA: OOD OTHER OOSHING	g in a Service Organization	
	JOB ORDER COST CARD	
	Cloud Storage Services	
Customer:	Jayson Holiday	
Job Order No.:	XXYQ	
Contract Type:	Cost-Plus	
Type of Service:	Annual Internet Storage	
Date of Completion:	November 6, 2014	
Costs Charged to Job		Total Cost
Software installation s	services:	
Installation labor		\$30
Service overhead	(100% * of installation labor costs)	_30
Total		<u>\$60</u>
Internet services:		_
Internet storage		\$10
Service overhead	(200% of Internet storage costs)	_20
Total		<u>\$30</u>
\$30 / \$30 = 100%		
Cost Summary to Date	•	Total Cost
Software installat	ion services	\$ 60
Internet services		<u>30</u>
Total		\$ 90
Profit margin (6	0% of total cost)	54
Contract revenue		<u>\$144</u>

	nd 2								
					(1)		(2)	(3)	
					(-)		Next Year's	Next Yea	ar
					Past Yea	ar	Percentage	(1 × 2)	
Ind	irec	t materials and sup	plies, rep	air					
6	nd r	naintenance, outsi	de service	е					
		acts, indirect labo							
		rvision, factory ins	urance, h	eat,					
		and power costs			\$222,000		110%	\$244,200	
		iation, machinery			85,000		112%	95,200	
	•	y taxes and misce	llaneous		40.000			45.000	
•		nead			<u>13.000</u>		120%	<u>15.600</u>	
	Tot				\$320,000			\$355,000	
		by machine hours			40.000			50.000	ļ
Pre	dete	ermined overhead i	rates		<u>\$ 8.00</u>	/MH		\$ 7.10	/MH
		+ 10,000 = 50,000 computation and A	pplication	of Overh	ead Rate				
E15	A. C	·		of Overho	ead Rate				
E15	5A. C	omputation and A	= \$1.12		ead Rate				
	5A. C	computation and A	= \$1.12	25.000	ead Rate				
E15	\$9	omputation and A 000,000 × 125% rease in labor hou	s: \$1.12	25.000					
E15	\$9	computation and A 200,000 × 125% rease in labor hour 75,000 hours ×	s: \$1.12	<u>= 90.00</u>	00 hours	lirect I	abor hour		
E15	\$9	computation and A 200,000 × 125% rease in labor hour 75,000 hours ×	= \$1.12 rs: 120% ead rate:	25.000 = 90.00 hours =	00 hours 		abor hour		
E15	SA. C	rease in labor hour 75,000 hours × edetermined overher \$1,125,000 /	= \$1.12 rs: 120% ead rate: 90,000	25.000 = 90.00 hours =	00 hours 		abor hour	\$1,124,	000
E15	SA. C	rease in labor hour 75,000 hours × edetermined overhous 1,125,000 / 89,920 hours	= \$1.12 rs: 120% ead rate: 90,000 x \$12.9	= <u>90.00</u> hours =	00 hours 		abor hour	\$1,124, _1.143.	
E15	SA. C	rease in labor hour 75,000 hours × edetermined overher \$1,125,000 / 89,920 hours Overhead applied	= \$1.12 rs: 120% ead rate: 90,000 x	= <u>90.00</u> hours =	00 hours 		abor hour		<u>400</u>
E15	SA. C	rease in labor hour 75,000 hours × edetermined overhead applied Less actual overh	= \$1.12 rs: 120% ead rate: 90,000 x	= <u>90.00</u> hours = 50 per hours	\$12.50 per d	00		<u>1.143.</u> \$ (19.	<u>400</u>
E15	Inc	rease in labor hour 75,000 hours × edetermined overher \$1,125,000 / 89,920 hours Overhead applied Less actual overhunderapplied over	= \$1.12 rs: 120% ead rate: 90,000 x	= 90.00 hours = 50 per hours	hours per d	00 rial, th	e Cost of Goods	<u>1.143.</u> \$ (19.	<u>400</u>

Problems									
P1. T Account Analysis	s with Unknowns	S							
	MA	λΥ				JUN	IE		
Materials Inventory					Materia	als I	nventory		
Beg. bal.	36,240	Requests	82,320	(e) Beg. bal.	38,910		(h) Requests	93,080	
(a) Purchases	84,990			Purchases	96,120				
End. bal.	38,910			End. bal.	41,950				
	Work in Proce	ess Inventory			Work in Pro	oces	ss Inventory		
Beg. bal.	56,480	(c) Completed	212,730	(f) Beg. bal.	45,770		Completed	221,400	
Direct materials	82,320			(h) Direct materials	93,080				
(b) Direct labor	66,500	*		Direct labor	72,250				
Overhead	53,200			(i) Overhead	57,800	**			
(d) End. bal.	45,770			(k) End. bal.	47,500				
	Finished Goo	ds Inventory		Finished Goods Inventory					
Beg. bal.	44,260	Cost of goods sold	209,050	(g) Beg. bal.	47,940		(j) Cost of goods sold	218,160	
(c) Completed	212,730			Completed	221,400			· · · · · · · · · · · · · · · · · · ·	
End. bal.	47,940			End. bal.	51,180				
* \$53,200 / 80% = \$6	36 500					•			

\$72,250 × 80% = \$57,800

1.								
	Materials	Inventory		\	Nork in Proc	ess Inventor	y	
1/1	215,400	1/4	231,300	1/4	193,200	1/31	855,990	
1/2	49,500	1/21	246,150	1/15	120,000		•	
1/19	218,000			1/15	108,000			
End. bal.	5,450			1/21	214,750			
				1/31	132,000			
				1/31	118,800			
				End. bal.	30,760			
	Finished God	ds Inventory	1		Over	head		
1/31	855,990	1/31	824,520	1/4	38,100	1/15	108,000 *	
End. bal.	31,470			1/10	12,100	1/31	118,800 *	
	•			1/15	60,620			
				1/21	31,400			
				1/31	62,240			
				1/31	22,600			
				End. bal.	260			
	Ca	sh		Accounts Receivable				
		1/10	12,100	1/31	996,800			
		End. bal.	12,100	End. bal.	996,800			
				A	ccumulated [Depreciation	_	
	Prepaid I	nsurance			Mach	inery		
		1/31	3,700			1/31	15,500	
		End. bal.	3,700			End. bal.	15,500	
	Accounts	S Payable			Payroll	Payable		
		1/1	215,400			1/15	180,620	
		1/2	49,500			1/31	194,240	
		1/19	218,000			End. bal.	374,860	
		End. bal.	482,900					
	Property Ta	xes Payable			Sa	les		
		1/31	3,400			1/31	996,800	
		End. bal.	3,400			End. bal.	996,800	
		<u>,</u>				-		
	Cost of G	oods Sold						
1/31	824,520							
End. bal.	824,520							
	1	L	I.	ı				

				J	Job Ord	der:	Х
		JOB ORDER O	COST CARD				
		Eagle Car					
Customer:	Job X		Batch:		Custo	om:	Х
Specifications:	Golf Carts	per Customer Spe	ecs				
Date of Order:	1/4/2014		Date	e of Complet	ion:	1/31/	2014
			Previous	Current		То	tal
Costs Charged to	Job		Months	Month		Co	st
Direct materials:				\$193,20	00		
				<u> 178.17</u>	<u>70</u>		
Total direct ma	aterials			\$371.37	<u>70</u>	\$ 37	1,370
Direct labor:				\$120,00			
				118.50	00		
Total direct lab	oor			\$238.50	00	238,500	
Overhead:							
(90% of direction	ct labor costs)		\$214.6	<u>50</u>	21	<u>4.650</u>
Total cost				•		\$ 82	4,520
						·	
Units completed						÷	375
•						<u> </u>	375
•						<u> </u>	375
•						÷ \$2.1	37 <u>5</u> 98.72
•					Job Ord	÷ \$2.1	375
•		JOB ORDER (Job Ord	÷ \$2.1	375 98.72
Product unit cost		JOB ORDER (Eagle Car	rts, Inc.			<u>÷</u> \$2.11 der:	375 98.72 Y
Product unit cost	Job Y	Eagle Car	rts, Inc. Batch:		Job Ord	<u>÷</u> \$2.11 der:	375 98.72
Product unit cost Customer: Specifications:	Job Y Golf Carts		rts, Inc. Batch:		Custo	± \$2.11	375 98.72 Y
Product unit cost Customer: Specifications:	Job Y	Eagle Car	rts, Inc. Batch:		Custo	± \$2.11	375 98.72 Y
Product unit cost Customer: Specifications:	Job Y Golf Carts	Eagle Car	rts, Inc. Batch: ecs Date	e of Complet	Custo	± \$2.11 der: om:	375 98.72 Y X
Product unit cost Customer: Specifications: Date of Order:	Job Y Golf Carts 1/21/2014	Eagle Car	rts, Inc. Batch:		Custo	± \$2.11 der: om: 1/31/ To	375 98.72 Y
Customer: Specifications: Date of Order: Costs Charged to	Job Y Golf Carts 1/21/2014	Eagle Car	rts, Inc. Batch: ecs Date	e of Complet	Custo	± \$2.11 der: 1/31/ To	375 98.72 Y X (2014
Customer: Specifications: Date of Order: Costs Charged to	Job Y Golf Carts 1/21/2014	Eagle Car	rts, Inc. Batch: ecs Date	e of Complet Current Month	Custo	± \$2.11 der: 1/31/ To Co \$1:	375 98.72 Y X 2014 tal
Customer: Specifications: Date of Order: Costs Charged to Direct materials Direct labor	Job Y Golf Carts 1/21/2014	Eagle Car	rts, Inc. Batch: ecs Date	e of Complet Current Month \$18,17	Custo ::::::::::::::::::::::::::::::::::::	± \$2.11 der: 1/31/ To Cc \$18	375 98.72 Y X 2014 tal est 8,170 7,000
Customer: Specifications: Date of Order: Costs Charged to Direct materials Direct labor Overhead:	Job Y Golf Carts 1/21/2014	Eagle Car	rts, Inc. Batch: ecs Date	e of Complet Current Month \$18,17	Custo ::::::::::::::::::::::::::::::::::::	± \$2.11 der: 1/31/ To Cc \$1	375 98.72 Y X 2014 tal est 8,170 7,000
Customer: Specifications: Date of Order: Costs Charged to Direct materials Direct labor Overhead: (90% of direct Total cost	Job Y Golf Carts 1/21/2014	Eagle Car	rts, Inc. Batch: ecs Date	e of Complet Current Month \$18,17	Custo ::::::::::::::::::::::::::::::::::::	± \$2.11 der: 1/31/ To Cc \$13	375 98.72 Y X 2014 tal ost 8,170 7,000 6.300 1,470
Customer: Specifications: Date of Order: Costs Charged to Direct materials Direct labor Overhead: (90% of direct	Job Y Golf Carts 1/21/2014	Eagle Car	rts, Inc. Batch: ecs Date	e of Complet Current Month \$18,17	Custo ::::::::::::::::::::::::::::::::::::	± \$2.11 der: 1/31/ To Co \$1: \$3: ±	375 98.72 Y X 2014 tal est 8,170 7,000

					Job C	rder:	Z
		JOB ORDER (•	
		Eagle Ca	rts, Inc.		1		
Customer:	Job Z		Batch:		Cus	stom:	Х
Specifications:	Golf Carts p	er Customer Sp	ecs				
Date of Order:	1/21/2014		Date	of Comple	etion:	1/31/	2014
			Previous	Currer	nt .	To	tal
Costs Charged t	o Job		Months	Month			st
Direct materials				\$18,4			3,410
Direct labor					500		6,500
Overhead:				-,-			, = =
(90% of dire	ect labor costs)			5.8	<u>350</u>	:	5.850
Total cost						\$30	0,760
Units completed	1						
Units completed Product unit cos							
<u> </u>							
<u> </u>	st					\$227	7,060
Product unit cos	urred						7,060 6.800
Overhead inco	urred blied						
Product unit cos	urred blied					220	6.800
Overhead inco	urred blied	Over	head			220	6.800
Overhead inco Overhead app Underapplied	urred blied	38,100	1/15			\$,000	6.800
Overhead inco Overhead app Underapplied	urred blied	38,100 12,100	1			\$	6.800
Overhead inco Overhead app Underapplied 1/4 1/10 1/15	urred blied	38,100 12,100 60,620	1/15			\$,000	6.800
Overhead inco Overhead app Underapplied 1/4 1/10 1/15 1/21	urred blied	38,100 12,100 60,620 31,400	1/15			\$,000	6.800
Overhead inco Overhead app Underapplied 1/4 1/10 1/15 1/21 1/31	urred blied	38,100 12,100 60,620 31,400 62,240	1/15			\$,000	6.800
Overhead inco Overhead app Underapplied 1/4 1/10 1/15 1/21 1/31 1/31	urred blied	38,100 12,100 60,620 31,400 62,240 22,600	1/15			\$,000 8,800	6.800
Overhead inco Overhead app Underapplied 1/4 1/10 1/15 1/21 1/31 1/31 Bal.	urred blied overhead	38,100 12,100 60,620 31,400 62,240	1/15			\$,000	6.800
Overhead inco Overhead app Underapplied 1/4 1/10 1/15 1/21 1/31 1/31	urred blied overhead	38,100 12,100 60,620 31,400 62,240 22,600 —	1/15 1/31 1/31			\$,000 8,800	6.800
Overhead inco Overhead app Underapplied 1/4 1/10 1/15 1/21 1/31 1/31 Bal. End. b	urred blied overhead	38,100 12,100 60,620 31,400 62,240 22,600 — Cost of G	1/15 1/31 1/31			\$,000 8,800	6.800
Overhead inco Overhead app Underapplied 1/4 1/10 1/15 1/21 1/31 1/31 Bal. End. b	urred blied overhead	38,100 12,100 60,620 31,400 62,240 22,600 — Cost of Go	1/15 1/31 1/31			\$,000 8,800	6.800
Overhead inco Overhead app Underapplied 1/4 1/10 1/15 1/21 1/31 1/31 Bal. End. b	urred blied overhead	38,100 12,100 60,620 31,400 62,240 22,600 — Cost of G	1/15 1/31 1/31			\$,000 8,800	6.800

P3. Job Or	der Cost Fl	ow									
1., 3., and 4	4.										
	Materi	als	Inventory		Work in Process Inventory						
Beg. bal.	21,360		6/6	37,240	Beg. bal.	15,112		6/30	185,073	а	
6/4	33,120		6/23	38,960	6/6	37,240					
6/16	28,600				6/15	23,680					
6/22	31,920				6/15	30,784					
End. bal.	38,800				6/23	38,960					
					6/29	25,960					
					6/29	33,748					
					End. bal.	20,411	b				
	Finished (God	ods Inventor	у		0	ve	rhead			
Beg. bal.	17,120		6/30	183,000				6/15	30,784	С	
6/30	185,073	а						6/29	33,748	d	
End. bal.	19,193							End. bal.	64,532		
	Accour	nts	Receivable			Payr	oll	Payable			
6/30	320,000							6/15	23,680		
End. bal.	320,000							6/29	25,960		
								End. bal.	49,640		
		Sa	les			Cost o	f G	oods Sold			
			6/30	320,000	6/30	183,000					
			End. bal.	320,000	End. bal.	183,000					
a \$20	5 484 – \$20	41	1 = \$185,073	<u> </u>							
			rocess Inver	ntory:							
	24-A	\$ 4	4,560								
	24-B		4,666								
	24-C		6,035 5.150								
Job	24-D										
	Total	<u> </u>	<u>:0.411</u>								
c \$23	,680 × 130%	6 =	\$30,784								
d * c=	000 4000	,	600.740								
d \$25	,960 × 130%	′o =	\$33,748								

. and 3.					
cost of ending	Work in Process Inv	ventory:			
	Direct	Direct			
Job No.	Materials	Labor	Overhead	Total	
24-A	\$1,593	\$1,290	\$1,677	\$ 4,560	
24-B	1,492	1,380	1,794	4,666	
24-C	1,987	1,760	2,288	6,035	
24-D	<u>1.608</u>	<u> 1.540</u>	2.002	<u>5.150</u>	
	<u>\$6.680</u>	\$5,970	\$7,761	\$20,411	
Costs of units of	completed:				
	nce, Work in Proces	-			\$ 15,112
	naterials, direct labo	•	added during perio	od	190.372
	uded in Work in Pro				\$205,484
ess ending Wo	ork in Process Inver	ntory			20.411
cost of goods	completed and trans	sferred			<u>\$185.073</u>
Job 24-A:					
	jinning balance				\$4,560
July cos					
	t labor				960
	head (130%)				1.248
Total co	st				\$6.768
Product	unit cost:				
\$6,768	/ 1,800 pairs =	<u>\$3.76</u>			
Job 24-C:					
July beg	jinning balance				\$6,035
July cos					
	t labor				1,610
	head (130%)				2.093
Total co	st				\$9.738
Product	unit cost:				
\$9,738	/ 900 pairs =	\$10.82	·		

		Nature Cosmetics C	Company	
	Over	head Rate Computa	tion Schedule	
		For This Yea	ır	
		(1)	(2)	(3)
			Projected	Projection
			Percentage	This Year
Overhead Cost It	em	Last Year	Increase	(1 × 2)
Indirect labor		\$ 23,500	130%	\$ 30,550
Employee benefi		28,600	130%	37,180
Manufacturing su	upervision	18,500	110%	20,350
Utilities		15,000	140%	21,000
Factory insurance		7,800	120%	9,360
Janitorial service		12,100	110%	13,310
Depreciation, fac	tory and			
machinery		21,300	120%	25,560
Miscellaneous ov		6.000	130%	<u>7.800</u>
Total overhe	ad	<u>\$132.800</u>		\$165,110
\$165,110 /	68,786 machi	ne hours = \$2.40 '	* per machine ho	ur
· ·	30,700		per macmine no	ur
nded	Machine	Predetermined	Overhead	ur
Job No.	Machine Hours	Predetermined Overhead Rate		ur
Job No.	Machine Hours 12,300	Predetermined Overhead Rate \$2.40	Overhead Applied \$ 29,520	ur
Job No. 2214 2215	Machine Hours 12,300 14,200	Predetermined Overhead Rate \$2.40	Overhead Applied \$ 29,520 34,080	ur
Job No. 2214 2215 2216	Machine Hours 12,300 14,200 9,800	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520	ur
Job No. 2214 2215 2216 2217	Machine Hours 12,300 14,200 9,800 13,600	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640	ur
Job No. 2214 2215 2216 2217 2218	Machine Hours 12,300 14,200 9,800 13,600 11,300	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120	ur
Job No. 2214 2215 2216 2217 2218 2219	Machine Hours 12,300 14,200 9,800 13,600 11,300 8,100	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120	ur
Job No. 2214 2215 2216 2217 2218	Machine Hours 12,300 14,200 9,800 13,600 11,300	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120	ur
Job No. 2214 2215 2216 2217 2218 2219 Totals	Machine Hours 12,300 14,200 9,800 13,600 11,300 8,100 69,300	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120	
Job No. 2214 2215 2216 2217 2218 2219 Totals Overhead applied	Machine Hours 12,300 14,200 9,800 13,600 11,300 8,100 69,300	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120	\$166,320
Job No. 2214 2215 2216 2217 2218 2219 Totals Overhead applied Actual overhead	Machine Hours 12,300 14,200 9,800 13,600 11,300 8.100 69.300	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120	\$166,320 _165.845
Job No. 2214 2215 2216 2217 2218 2219 Totals Overhead applied Actual overhead	Machine Hours 12,300 14,200 9,800 13,600 11,300 8.100 69.300	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120	\$166,320 _165.845
Job No. 2214 2215 2216 2217 2218 2219 Totals Overhead applied Actual overhead Overapplied over	Machine Hours 12,300 14,200 9,800 13,600 11,300 8,100 69,300 d incurred this year	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120 19.440 \$166,320	\$166,320
Job No. 2214 2215 2216 2217 2218 2219 Totals Overhead applied Actual overhead Overapplied over	Machine	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120 19.440 \$166,320	\$166,320 165.845
Job No. 2214 2215 2216 2217 2218 2219 Totals Overhead applied Actual overhead Overapplied over	Machine Hours 12,300 14,200 9,800 13,600 11,300 8,100 69,300 displaying the ad f Goods Sold by e was computed	Predetermined Overhead Rate \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40 \$2.40	Overhead Applied \$ 29,520 34,080 23,520 32,640 27,120 19.440 \$166,320 al overhead costs the year. During	\$166,320 165.845

Direct r	naterials cost	\$36,750
Cost of	purchased parts	21,300
Direct I	abor cost:	
	\$16.00	
	<u>× 220</u>	3,520
Overhe	ad cost:	
	\$3,520	
	<u>× 270</u> %	<u>9.504</u>

Finished Goods Inventory Finished Goods Inventor	
(a) Purchases 52,000 Purchases 31,000 Purchases End. bal. 27,000 End. bal. 8,000 End. bal. Work in Process Inventory Beg. bal. 24,000 (c) Completed 164,000 Direct materials 77,000 (h) Direct materials 50,000 (b) Direct labor 48,364 * Direct labor 44,000 Overhead 53,200 (i) Overhead 48,400 ** (d) End. bal. 38,564 (k) End. bal. 13,964	
End. bal. 27,000 End. bal. 8,000	ry
Work in Process Inventory Work in Process Inventory	ту
Beg. bal. 24,000 (c) Completed 164,000 (f) Beg. bal. 38,564 Completed Direct materials 77,000 (h) Direct materials 50,000 Direct labor 44,000 Finished Goods Inventory (i) Overhead 48,400 ** <td>гу</td>	гу
Direct materials 77,000	
(b) Direct labor 48,364 * Direct labor 44,000 Overhead 53,200 (i) Overhead 48,400 ** (d) End. bal. 38,564 (k) End. bal. 13,964 Finished Goods Inventory	ed 167,000
Overhead 53,200 (i) Overhead 48,400 ** (d) End. bal. 38,564 (k) End. bal. 13,964 Finished Goods Inventory	
(d) End. bal. 38,564 (k) End. bal. 13,964 Finished Goods Inventory Finished Goods Inventor	
Finished Goods Inventory Finished Goods Inventor	
	y
Beg. bal.	of goods sold 160,000
(c) Completed 164,000 Completed 167,000	
End. bal. 12,000 End. bal. 19,000	

P7. Job Ord	er Costing: 1	Γ Account A	nalysis					
1.								
	Materials	Inventory			Work in Pro	ces	ss Inventory	
9/1	59,400	9/3	26,850	9/3	26,850		9/30	322,400
9/4	22,830	9/10	35,990	9/10	29,510			, , , , , , , , , , , , , , , , , , ,
9/23	41,200	9/27	36,510	9/15	62,900			
End. bal.	24,080			9/15	75,480	*		
	•			9/27	28,870			
				9/30	64,220			
				9/30	77,064	**		
				End. bal.	42,494			
i	Finished Goo	ds Inventor	y		Ov	erh	ead	
9/30	322,400	9/30	294,200	9/8	10,875		9/15	75,480
End. bal.	28,200			9/10	6,480		9/30	77,064
·				9/15	58,510			
				9/22	10,900			
				9/27	7,640			
				9/30	58,810			
				9/30	3,910			
				End. bal.	4,581			
	Ca	sh		Accounts Receivable				
		9/4	22,830	9/30	418,240			
		9/8	10,875	End. bal.	418,240			
		9/22	10,900					
		End. bal.	44,605					
A	ccumulated I	Depreciation	—					
ı	Manufacturin	g Equipmen	t		Accour	nts	Payable	
		9/30	2,680				9/1	59,400
		End. bal.	2,680				9/23	41,200
			_,,,,,				End. bal.	100,600
	Payroll	Payable			Property 1	Γαν	es Payable	-
	, ayron	9/15	154,390		openty		9/30	1,230
		9/30	159,230				End. bal.	1,230
		End. bal.	313,620		1		<u>l</u>	·
	Sa	les			Cost of	Go	ods Sold	
		9/30	418,240	9/30	294,200			
		End. bal.	418,240	End. bal.	294,200			
Selline	g and Admin	istrative Exr	enses					
9/15	32,980							
9/30	36,200							
End. bal.	69,180							
•	120% = \$75,4 120% = \$77,		,					

					Job Order:	Α	
		JOB ORDER COST O	ARD		,		
	1	Rhile Industries, I	nc.	T			
Customer:	Job A		Batch:		Custom:	Х	
Specifications:	Uniforms per	customer					
Date of Order:	9/3/14		Date	of Comple	tion: 9/	30/14	
		Pre	vious	Curren	t T	otal	
Costs Charged to	Job	Мо	nths	Month	(Cost	
Direct materials:				\$ 26,85	50		
				29,5	10		
				2.6	<u>60</u>		
Total direct m	aterials			\$ 59.02	20 \$	59,020	
Direct labor:				\$ 62,90	00		
				44.0	00		
Total direct la	bor			<u>\$106.9</u>	<u>00</u> 1	06,900	
Overhead:				\$ 75,48	30		
(120% of	f direct labor co	sts)		52.8	00		
Total overhea	ıd			\$128.2	<u>80</u> _1	28.280	
Total cost					\$2	94,200	
Units completed					<u> </u>	<u>58.840</u>	
Product unit cost					<u>\$</u>	5.00	
					Job Order:	В	
		JOB ORDER COST O	ARD				
		Rhile Industries, I					
Customer:	Job B		Batch:		Custom:	Х	
Specifications:	Uniforms per	customer	l_	I.			
Date of Order:	9/27/14		Date	of Complet	tion: 9/	30/14	
		Pre	vious	Curren	t T	otal	
Costs Charged to	Job	Мо	nths	Month	(Cost	
Direct materials:				\$ 8,40	00 \$	\$ 8,400	
Direct labor:				9,0	00	9,000	
Overhead:	f direct labor oc	sts)		_10,8	00 _	10.800	
Overhead:	i direct labor co				1		
(120% of	i direct labor co	1	11.		\$	28,200	
Overhead: (120% of the state	direct labor co	, 				3.525 - 3.525	

						Job O	rder:	С
				COST CARD				
			Rhile Indu	stries, Inc.				
Customer:		Job C		Batch:		Cus	stom:	X
Specification	ons:	Uniforms per	customer					
Date of Ord	ler:	9/27/14		Date	of Comple	etion:		
				Previous	Currer	nt	То	tal
Costs Char	ged to Jo	b		Months	Month	1	Co	st
Direct mate	rials:				\$17,8	310	\$1	7,810
Direct labor	r:				11,2	220	1	1,220
Overhead:								
(120% of	f direct la	bor costs)			13.4	164	_1;	3.464
Total cost							\$42	2,494
Units comp	leted							
•								
	d incurre	d						157,12 152.54
Overhead Overhead			Over	hood			_1	157,12 152.54 4.58
Overhead Overhead Underap	d incurred d applied plied ove		Over	T		75	<u></u>	152.54
Overhead Overhead Underap	d incurred d applied plied ove		10,875	9/15			\$,480	152.54
Overhead Overhead Underap	d incurred d applied plied ove		10,875 6,480	T			<u></u>	152.54
Overhead Overhead Underap	d incurred d applied plied ove		10,875	9/15			\$,480	152.54
Overhead Overhead Underap 9/3 9/3 9/3 9/3	d incurred d applied plied ove 8 110 115 122		10,875 6,480 58,510 10,900 7,640	9/15			\$,480	152.54
Overhead Overhead Underap	d incurred d applied plied ove 8 10 15 22 27		10,875 6,480 58,510 10,900 7,640 58,810	9/15			\$,480	152.54
Overhead Overhead Underapp 9/3 9/3 9/3 9/3 9/3 9/3 9/3	d incurred d applied plied ove 8 10 15 22 27 30		10,875 6,480 58,510 10,900 7,640 58,810 3,910	9/15 9/30		77	,480 ,064	152.54
Overhead Overhead Underapp 9/3 9/3 9/3 9/3 9/3 9/3 9/3 8/4	d incurred d applied plied ove 8 10 15 22 27 30 30 al.		10,875 6,480 58,510 10,900 7,640 58,810	9/15		77	\$,480	152.54
Overhead Overhead Underapp 9/3 9/3 9/3 9/3 9/3 9/3 9/3 8/4	d incurred d applied plied ove 8 10 15 22 27 30		10,875 6,480 58,510 10,900 7,640 58,810 3,910	9/15 9/30		77	,480 ,064	152.54
Overhead Overhead Underapp 9/3 9/3 9/3 9/3 9/3 9/3 9/3 8/4	d incurred d applied plied ove 8 10 15 22 27 30 30 al.		10,875 6,480 58,510 10,900 7,640 58,810 3,910	9/15 9/30 9/30		77	,480 ,064	152.54
Overhead Overhead Underap	d incurred applied plied ove 8 10 15 22 27 30 30 al. and. bal.		10,875 6,480 58,510 10,900 7,640 58,810 3,910 4,581 — Cost of Go	9/15 9/30 9/30		77	,480 ,064	152.54
Overhead Overhead Underap	d incurred d applied plied ove 8 10 15 122 27 130 130 al. nd. bal.		10,875 6,480 58,510 10,900 7,640 58,810 3,910 4,581 — Cost of Go	9/15 9/30 9/30		77	,480 ,064	152.54

I., 3., and 4	l.								
	Materia	als lı	nventory			Work in Pro	ocess Invento	ory	
Beg. bal.	27,450		2/4	9,080	Beg. bal.	22,900	2/28	76,470	а
2/6	7,200		2/13	5,940	2/4	9,080			
2/12	8,110		2/25	7,600	2/13	5,940			
2/24	5,890				2/14	13,750			
End. bal.	26,030				2/14	19,250			
					2/25	7,600			
					2/28	13,230			
					2/28	18,522			
					End. bal.	33,802	b		
	Finished (Good	ds Invento	ory		0\	erhead		
Beg. bal.	19,200		2/28	89,000			2/14	19,250	С
2/28	76,470	а					2/28	18,522	d
End. bal.	6,670						End. bal.	37,772	
	Accoun	ts R	eceivable			Payro	oll Payable		
2/28	152,400						2/14	13,750	
End. bal.	152,400						2/28	13,230	
							End. bal.	26,980	
		Sale	es			Cost of	Goods Sold		
			2/28	152,400	2/28	89,000			
			End. bal.	152,400	End. bal.	89,000			
	272 – \$33,8 g Work in		· · · · · · · · · · · · · · · · · · ·	ntory:					
Job A	J-10	\$ 7	,564						
Job A			3,944						
Job A			6,916						
Job A	J-16		0.378						
Tot	al	\$33	<u>3.802</u>						
° \$13 7!	50 × 140%	= \$1	9.250						

2. and 3.					
Cost of ending W	ork in Process Inv	entory:			
	Direct	Direct			
Job No.	Materials	Labor	Overhead	Total	
AJ-10	\$ 3,220	\$1,810	\$ 2,534	\$ 7,564	
AJ-14	3,880	2,110	2,954	8,944	
AJ-15	2,980	1,640	2,296	6,916	
AJ-16	4.690	2.370	<u>3.318</u>	<u> 10.378</u>	
	<u>\$14.770</u>	\$7,930	\$11,102	\$33,802	
Costs of units co	mpleted:				
	e, Work in Proces				\$ 22,900
Cost of direct ma	terials, direct labo	r, and overhead	l added during pe	eriod	87.372
otal costs includ	ded in Work in Pro	cess Inventory			\$110,272
ess ending Wor	k in Process Inven	tory			33.802
Cost of goods co	mpleted and trans	ferred			<u>\$ 76.470</u>
1. Job AJ-10:					
March beg	ginning balance				\$ 7,564
March cos	sts:				•
Direct	abor				720
Overhe	ead (140%)				<u> 1.008</u>
Total cost					\$ 9.292
Product u	nit cost:				
\$9,292	/ 40 units =	\$232.30			
Job AJ-14:					
March beg	ginning balance				\$ 8,944
March cos					
Direct					1,140
Overhe	ead (140%)				<u>1.596</u>
Total cost					<u>\$11.680</u>
Product u	nit cost:				
\$11,680	/ 50 units =	\$233.60			

		Gyllstrom Produc	ts. Inc.	
	Over	rhead Rate Computa		
		For This Yea		
		(1)	(2)	(3)
		()	Projected	Projection
			Percentage	This Year
Overhead Co	ost Item	Last Year	Increase	(1 × 2)
Indirect mat	erials	\$ 58,000	130%	\$ 75,400
Indirect labo	or	25,000	120%	30,000
Supervision		41,000	110%	45,100
Utilities		11,200	120%	13,440
Labor-relate	d costs	9,000	110%	9,900
Depreciation	n, factory	10,500	110%	11,550
Depreciation	n, machinery	27,000	120%	32,400
Property tax	es	3,000	120%	3,600
Insurance		2,000	120%	2,400
Miscellaneo	us overhead	5.000	110%	5.500
Total ove		ቀ ንጋስ ጋስስ		
Predetermin	nead led overhead rate for 0 / 45,858 machine ho		hine hour	\$229,290
Predetermin	ed overhead rate for	this year:	hine hour Overhead	\$229,290
Predetermin	ed overhead rate for 0 / 45,858 machine ho Machine	this year: ours = \$5.00 per mac		\$229,290 ————
Predetermin \$229,290	ned overhead rate for 0 / 45,858 machine ho Machine Hours	this year: ours = \$5.00 per mac Predetermined Overhead Rate	Overhead Applied	\$229,290 ————
Predetermin \$229,290 Job No.	ed overhead rate for 0 / 45,858 machine ho Machine	this year: ours = \$5.00 per mac Predetermined	Overhead Applied \$ 39,200	\$229,290 ————
Predetermin \$229,290 Job No. H-142	Machine Hours 7,840	this year: ours = \$5.00 per mac Predetermined Overhead Rate \$5.00	Overhead Applied	\$229,290 ————
Predetermin \$229,290 Job No. H-142 H-164	Machine Hours 7,840 5,260	this year: ours = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300	\$229,290 ————
Predetermin \$229,290	Machine Hours 7,840 5,260 8,100	this year: ours = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300 40,500	\$229,290 ————
Job No. H-142 H-164 H-175 H-201	Machine Hours 7,840 5,260 8,100 10,680	this year: ours = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00 \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300 40,500 53,400	\$229,290 ———
Section	Machine Hours 7,840 5,260 8,100 10,680 12,310	this year: ours = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00 \$5.00 \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300 40,500 53,400 61,550	\$229,290
Section	Machine Hours 7,840 5,260 8,100 10,680 12,310 2,460 46,650	this year: purs = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00 \$5.00 \$5.00 \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300 40,500 53,400 61,550	
Section Predetermin \$229,290	Machine Hours 7,840 5,260 8,100 10,680 12,310 2,460 46.650	this year: purs = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00 \$5.00 \$5.00 \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300 40,500 53,400 61,550	\$234,000
Section	Machine Hours 7,840 5,260 8,100 10,680 12,310 2,460 46.650 head incurred this yeapplied	this year: purs = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00 \$5.00 \$5.00 \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300 40,500 53,400 61,550	
Job No. H-142 H-164 H-175 H-201 H-218 H-304 Totals Actual overh Overhead ap Underapplie	Machine Hours 7,840 5,260 8,100 10,680 12,310 2.460 46.650 nead incurred this year	this year: purs = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00 \$5.00 \$5.00 \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300 40,500 53,400 61,550 12,300 \$233,250	\$234,000 _233.250 \$ 750
Job No. H-142 H-164 H-175 H-201 H-218 H-304 Totals Actual overh Overhead ap Underapplie	Machine Hours 7,840 5,260 8,100 10,680 12,310 2,460 46.650 head incurred this yeapplied	this year: purs = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00 \$5.00 \$5.00 \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300 40,500 53,400 61,550 12,300 \$233,250	\$234,000 _233.250 \$ 750
Job No. H-142 H-164 H-175 H-201 H-218 H-304 Totals Actual overl Overhead ap Underapplie	Machine Hours 7,840 5,260 8,100 10,680 12,310 2.460 46.650 nead incurred this year	this year: ours = \$5.00 per mac Predetermined Overhead Rate \$5.00 \$5.00 \$5.00 \$5.00 \$5.00 \$5.00	Overhead Applied \$ 39,200 26,300 40,500 53,400 61,550 12.300 \$233,250	\$234,000 _233.250 \$750

period.

Cost o	Cost of direct materials		\$17,450
Cost o	Cost of purchased parts		14,800
Direct	labor costs	::	
	\$16.50		
	<u>× 140</u>	hours	2,310
Overh	ead cost:		
	\$2,310		
	<u>× 240</u> %		5.544

Cases

C1. Business Communication: Product Costing Systems

- 1. a. The memo is addressed to Jordan Smith, the president of Hawk Manufacturing. In general, the memo should be thorough, yet brief. The writer should be aware of the president's preferences and try to meet her standards. Presidents are usually too busy to read detailed, lengthy reports.
 - b. The purposes of the memo are to identify sources of waste, to develop performance measures to account for the waste, and to eliminate the current costs associated with such waste.
 - c. Information needed: The writer needs to know information about the sources of waste, specific performance measures that can account for the waste, and the estimated costs associated with such waste.

Obtaining the information: Information about specific performance measures can be provided by the Production and Engineering Design departments. The Production Department can provide information about work that has had to be redone: the tasks performed, the individuals involved, the length of time required, and the quantity and types of materials wasted. The Engineering Design Department can provide information about previous work involving the redesign of products: the tasks performed, the individuals involved, the length of time required, and the changes required in materials or changes required in materials or production processes.

The Accounting Department can provide some information about the estimated costs associated with the waste. However, the information in the problem has limited value. It includes aggregated amounts that provide little information about individual sources of waste.

Suggested performance measures for the two sources of waste:

Suggested performance measures for the t	wo sources or waste.
Waste	Performance Measures
Redoing work in the Production	Number of labor hours or machine hours
Department	required to redo the work
	Number of parts reworked
Redesigning products in the Engineering	Number of requests for redesign
Design Department	Number of engineering labor hours related
	to redesigning products that did not
	meet customer specifications

These nonfinancial, quantitative performance measures can be multiplied by a cost to estimate the total cost of waste. The manager, working with an accountant, can design a system to identify the appropriate cost basis for each measure, such as the cost per labor hour or machine hour to adjust work and the cost per request for redesign or cost per engineering hour spent on product designs that do not support customers' specifications.

C1. Business Communication: Product Costing Systems (Concluded)

Accounting information: The accounting information provided in the problem is not sufficient for the memo because the current product costing system does not isolate costs by source. As a result, it is impossible to identify the costs associated with activities that are wasteful and non-value-adding. The manager, working with an accountant, can design a system to capture this information.

d. The president has allowed two weeks to complete the work. Because the accounting system is inadequate, a significant portion of that time will be needed to gather the estimated costs associated with sources of waste.

2. Outline of the sections in the memo:

	MEMORANDUM
То:	Jordan Smith
From:	Student's name
Date:	Today's date
Topic:	Recommendations for reducing waste in production and engineering design
I.	Introduction: Purpose of the memo
II.	Description of two sources of waste
III.	Recommended performance measures to account for the waste
IV.	Summary of estimated costs associated with the waste

C2. Group Activity: Job Order Costing

This assignment is designed to develop students' interviewing, data-gathering, and writing skills. Students will identify similarities and differences in the processes, documentation, and record-keeping practices of small businesses. Some interviewees will be very knowledgeable about the costs of running their businesses. Others will be less familiar with these costs. It is helpful for students to recognize the variations that exist in business practices.

Group students based on the type of business they have selected. Discussion within the groups should focus on the questions in part 5 of the assignment (estimating costs and selling prices, differences in documentation and recordkeeping practices, and students' opinions about the effectiveness of the businesses' accounting processes). Select a few groups to share the main points of their discussion with the class.

C3. Ethical Dilemma: Costing Procedures and Ethics

This is a case of defrauding the federal government. Laws have been broken in this scenario. Roger Parker should report the incident to his superior. He should also tell Harris Johnson to correct the pricing error as soon as possible. Parker has the obligation to work toward a successful solution to the problem. Otherwise, he could face charges as a co-conspirator. If he keeps quiet about an illegal transaction, he becomes a party to that transaction.

C4. Conceptual Understanding: Role of Cost Information in Software Development

There are several reasons for using economic value instead of developer labor cost in the "good enough" measure of performance for software development companies. First, these companies develop products with very short product lives because improvements in computer chips and hardware occur so rapidly. The ability to beat competitors by bringing new software programs to market quickly means the company has a better opportunity of capturing the market demand and making the sale. Second, because software developers' salaries are usually tied to the success of the company's products through employee stock incentives and bonuses, the true cost of salaries cannot be determined until after the product has been on the market. Finally, in emerging companies based on the Internet, it is not a company's profit margin that drives investor interest, but rather a company's growth potential. Thus, the cost standards used by established manufacturing companies, where the time from idea to market is not crucial to a product's success, where labor cost can easily be measured, and where a company's profitability is a good indicator of investor interest, do not apply.

C5. Interpreting Management Reports: Nonfinancial Data

- 1. The reduced lead time and increased productivity indicate that the quality of the manufacturing process improved. The quality of the manufactured engine parts cannot be assessed with these measures. Other performance measures are needed to determine the product's quality.
- 2. To compete effectively, Hawk must be prepared to offer a lower selling price. Hawk could do this and still remain profitable if some of its costs were reduced. Reduced manufacturing costs would allow Hawk to lower its selling price while still remaining profitable.
- 3. No. Since the structure of the manufacturing process did not change significantly, the product costing system would remain unchanged.

Although the product costing system remains unchanged, the amount of costs accumulated in the product costing system will change because the manufacturing process improved. Thus, the product unit cost will change.

- 4. The total manufacturing cost per engine part would decrease because:
 - a. costs of storing inventory will decrease because the inventory level has decreased
 - labor and overhead costs will decrease slightly because manufacturing time has decreased and productivity has increased

C6. Continuing Case: Cookie Company

This is a fun class activity that takes little class time and generates a lot of course positives.