

Lanen 3e, Chapter 7: Job Costing Practice Quiz

90. A manufacturing company employs job costing to account for its costs. There are three production departments, and separate departmental overhead application rates are employed because the operations of the departments are so different. All jobs generally pass through all three production departments. Data regarding the hourly direct labor rates, overhead application rates, and three jobs on which work was done during the month appear below. Job 101 and Job 102 were completed during the current month. (CIA Examination adapted)

		Manufacturing overhea
Production Departments	Direct Labor Rate	application rates
Department 1	\$12.00	50% of direct materials
Department 2	\$18.00	\$8.00 per machine hour
Department 3	\$15.00	75% of direct labor cost
	Job 101 Job	102 Job 103
Beginning Work-in-Process		2,400 \$ -0-
	\$ (\$23,300) (\$32	3 -0-
Direct materials:	(240,000) (20)	050.000
Department 1	The state of the s	\$58,000
Department 2	\$ 3,000 (\$ 5	5,000 \$14,000
Department 3	\$ -0- \$	-0- \$ -0-
Direct labor (hours:)	Rate/hr.	
Department 1	5 12 × 500 \$ 12 ×	400 300
Department 2	18 × 200 \$ 18×	250 350
Department 3	15 × 1,500 \$15×1	,800 2,500
Machine hours:		
Department 1 (50% x	DM) >0-	-0-
Department 1 (50% x Department 2 \$8/MU	× 1,200	,500 2,700
Department 3 (152 ×	DL\$) 1,500	2,500
		*

Required:

(a) Compute the completed costs of Job 101 and Job 102.

(b) Compute the value of the Work-in-Process Inventory at the end of the month.

(a) Job 101: \$147,075; Job 102: \$144,950 (b) Job 103: \$198,125 Job 102 Job 101 Job 103 \$25,500 \$32,400 \$ Beginning Work-in-process Materials: \$40,000 ⁵58,000 \$26,000 Department 1 3,000 Department 2 5,000 14,000 Labor: **\$** 6,000 **4,800 \$**3,600 Department 1 3,600 4,500 6,300 Department 2 22,500 **†**27,000 **4**37,500 Department 3 Overhead 50% **4**29,000) **\$**13,000 20,000 Department 1 8 per MH 9,600 12,000 21,600 < Department 2 752× (DL) 16,875 20,250 28,125 Department 3 \$144,950 \$147,075 \$198,125 Total Feedback: AACSB: Analytic AICPA: FN-Measurement Bloom's: Application Difficulty: Medium Learning Objective: 2 Learning Objective: 3 WIP, Inv Topic Area: Computing the Cost of a Job BB DM FG Inv CGM Jobs 101,102 EB Job. 103

FMOH is a product cost. (asset not a period cost.

91/Baby Care Manufacturing Company is a manufacturer of furnishings for infants and children. The company uses job costing and employs a full absorption accounting method for cost accumulation. Baby Care's Work-in-Process Inventory on April 30 consisted of the following jobs:

Job No.	<u>Items</u>	<u>Units</u>	Accumulated Cost		\$4,500,000 \$
CBS102	Cribs	20,000	\$ 900,000	POHR =	= 7.50 DUH
PLP086	Playpens	15,000	420,000	-	DH 2
DRS114	Dressers	25,000	250,000	/ ^	Den
Total			\$ 1,570,000		

Baby Care applies manufacturing overhead on the basis of direct labor hours. The company's estimated manufacturing overhead for the period ending May 31 totals \$4,500,000; the company estimated it would use 600,000 direct labor hours during the month.

At the end of April, the balance in Baby Care's Materials Inventory, which includes both materials and purchased parts, was \$668,000. Additions to, and requisitions from, the materials inventory during the month of May included the following:

	Purchased	<u>Materials</u> \$242,000	Purchased P \$396,		(MAY)	
	12 Pagnigitions	\$242,000	\$350,	,000		
Started in Apr	Requisitions:	\$ 51 000	r 104	000	DRS	114
+ completed in May	Job CBS102	*51,000	§ 104,		WIP,	Inv
w per !		* 3,000	₹ 10,	Chapter and Control of the Control o		
	Job DRS114	124,000	\$ 87,	5/1	250,000	
started	Job STR077			,		
+ completed	$\langle (10,000 \text{ strollers}) \rangle$	62,000	* 81,	,000	124 000	
in May.	Job CRG096	1. "		DPI T	87,000	\$0
	(5,000 carriages)	F 65,000	* 187,	,000	-	
				DL +	200,500	None transferred
	During the month of M	lay, Baby Care	e's factory payroll		1	to FG because
	consisted of the follow	ving:	Actual	Matt (\$	C 1950	to FG because not finished
		Hours	Cost	Mott \$7	30 x 17,500	not timester
	Job CBS102	12,000	\$122,400	apprica	Vas	
	Job PLP086	4,400	43,200			
	Job DRS114	19,500	(* 200,500)	5/21	+	
	Job STR077	3,500	* 30,000	(a)	\$807,750	
	Job CRG096	14,000	* 138,000		Made Construction	
	Indirect supervision		\$ 57,600	or MOH applies	Th	is is the entire 5/31 WIP INV
	Total		\$591,700	in MOH applies	d	n Baby Come because alle ther jobs (except for DRS114)
	Total		\$351,700	rate & \$ 7.50/	out. to	The Banger of Contract of April 4
	Listed below are the jo	bs that were	completed and the	e	ot ot	ther jobs (except for DR3117)
	units that were sold du	•	Sandan State of the State of th		w	ere completed in May
	(Completed)	9	Quantity			
	Job No.	Items	Completed			
DR5114	(CBS102	Cribs	20,000			
missing,	PLP086	Playpens	15,000			
1 not	STR077	Strollers	10,000			

Required:

CRG096 5,000 Carriages

(a) Compute the value of Baby Care's Work-in-Process Inventory on May 31.

(b) Compute the value of Baby Care's Cost of Goods Manufactured for May.

(a) Job DRS114: \$807,750

(b) \$2,471,650

Feedback: overhead rate: \$4,500,000/600,000 hrs = \$7.50/hr

(a) WIP 5/31: Job DRS114: \$250,000 beginning bal + \$124,000 materials + \$87,000 purchased parts +

 $200,500 \text{ labor} + (19,500 \times 7.50 \text{ overhead}) = 807,750$

(b) COGM: \$1,267,400 CBS102 + \$510,000 PLP086 + \$199,250 STR077 + \$495,000 CRG096 =

\$2,471,650

CBS102: $\$900,000 + 51,000 + 104,000 + 122,400 + (12,000 \times 7.50) = \$1,267,400$

PLP086: $420,000 + 3,000 + 10,800 + 43,200 + (4,400 \times 7.50) = $510,000$

STR077: $\$-0-+62,000+81,000+30,000+(3,500\times7.50)=\$199,250$

CRG096: $\$-0-+65,000+187,000+138,000+(14,000\times7.50)=\$495,000$

AACSB: Analytic
AICPA: FN-Measurement
Bloom's: Application
Difficulty: Hard
Learning Objective: 2
Learning Objective: 3
Topic Area: Manufacturing Overhead

					Finisher	
	Not Completed			comple	ted monufa	ctured
	DRS 114		CBS 102	PLP086	STR077	CRG 096
- /	259,000	- 51.	\$900,000	\$ 420,000	Ð	8
5/1 DM	259,000		(1) [51,000 104,000]	10,800	81,000	[65,000]
		DI	122,400	43,200	30,000	138,000
MoHapplied	200,500 \$7.50/put × 19,500 Duts	ME app	H *7.50/DLL × 12,600	7.50/DULL X 4,400	\$7.50/OLH × 3,500	× 14,000
5/31	+	C	6M \$1,267,4	5/0,000	199,250	413
		l	Baby Cares May CGM	} (b) # z,	471,650	4

94. Danner Corporation applies overhead based upon machine-hours. Budgeted factory overhead was \$375,000 and budgeted machine-hours were 12,500. Actual factory overhead was \$387,920 and actual machine-hours were 13,150.)

Required:

- a. Compute the overhead application rate.
- b. Compute the amount of overhead applied to production.
- c. Determine the amount of over- or underapplied overhead.

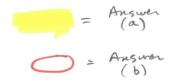
(c)
$$4387,920 - 4394,500 = 6,580$$
 over applied

	·		
	Actual	Applied	
(a) \$30 per machine hour (b) \$394,500 (c) \$6,580 overapplied	*387,920	*394,500	250 actual NH X 30/MOH POHR
Feedback:	Name of State of Stat	\$6,580 overapplied	

MOH

- (a) rate = \$375,000/12,500 hrs = \$30/hr
- (b) $13,150 \times $30 = $394,500$
- (c) \$387,920 actual 394,500 applied = \$6,580 overapplied

AACSB: Analytic AICPA: FN-Measurement Bloom's: Application Difficulty: Medium Learning Objective: 3 Topic Area: Manufacturing Overhead



95./The following selected data were taken from the books of the Bixby Box Company. The company uses job costing to account for manufacturing costs. The data relate to June operations.

A) Materials and supplies were requisitioned from the stores clerk as follows:

Job 405, material X, \$7,000

Job 406, material X, \$3,000 material Y, \$6,000

Job 407, material X, \$7,000; material Y, \$3,200.

For general factory use: materials A, B, and C, \$2,300

-actual MOH.

B) Time tickets for the month were chargeable as follows:

Job 405 Job 406 Job 407 Indirect labor \$11,000 14,000 8,000 3,700

C) Other information:

Beginning work-in-process, June 1, \$-0-

Factory paychecks for \$36,700 were issued during the month.

Various factory overhead charges of \$19,400 were incurred on account.

Depreciation of factory equipment for the month was \$5,400

Factory overhead was applied to jobs at the rate of \$35.00 per direct labor hour.

Job orders completed during the month: Job 405 and Job 406. Selling and administrative costs were \$2,100.

Factory overhead is closed out only at the end of the year.

Required:

- (a) Determine the ending work-in-process balance on June 30. (Only Job 407 [not completed])
- (b) Determine the cost of goods manufactured for June. ($J_{0}bs + 405 + 406$)
- (c) Is factory overhead over- or underapplied for June? What is the monthly value?

95. The following selected data were taken from the books of the Bixby Box Company. The company uses job costing to account for manufacturing costs. The data relate to June operations.

A) Materials and supplies were requisitioned from the stores clerk as follows:

Job 405, material X, \$7,000.

Job 406, material X, \$3,000; material Y, \$6,000.

Job 407, material X, \$7,000; material Y, \$3,200.

For general factory use: materials A, B, and C, \$2,300.

B) Time tickets for the month were chargeable as follows:

Job 405	\$11,000	300 hrs
Job 406	14,000	360 hrs
Job 407	8,000	190 hrs
Indirect labor	3,700	

C) Other information:

Beginning work-in-process, June 1, \$-0-

Factory paychecks for \$36,700 were issued during the month.

Various factory overhead charges of \$19,400 were incurred on account.

Depreciation of factory equipment for the month was \$5,400.

Factory overhead was applied to jobs at the rate of \$35.00 per direct labor hour.

Job orders completed during the month: Job 405 and Job 406.

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Required:

- (a) Determine the ending work-in-process balance on June 30.
- (b) Determine the cost of goods manufactured for June.
- (c) Is factory overhead over- or underapplied for June? What is the monthly value?

		Not completed		Com	oleted				
	***************************************	Job 407	***************************************	Job 405	Job 406				
						General Material	\$2,300 ✓	100 C	
	1-Jun	\$0	1-Jun	\$0	\$0	Indirect Labor	\$3,700 ✓		
		***************************************				Various MOH	\$19,400 🗸		
	DM	\$7,000	DM	\$7,000	\$3,000	Depreciation	\$5,400 ✓		
		\$3,200		***************************************	\$6,000	Total Actual MOH	\$30,800		-
	DL	\$8,000	DL	\$11,000	\$14,000				
3647 100 0004 M M 12 238 M 04 00 00 00 00						Total Applied MOH	Total Actual MOH	over/under	
\$35	MOH applied	\$6,650	MOH applied	\$10,500	\$12,600	\$29,750	\$30,800	(\$1,050)	(
per DLH								under applied	
-	30-Jun	\$24,850	CGM	\$28,500	\$35,600				
		(a)							
			Total CGM	\$64	,100				

(6)