











2-3



NEE Learning	D-TO-KNOV Objective P2: Comput	V 21-2 (2 of 3) The materials and labor variances.
AQ	83,000 lbs.	
AP	\$5.80 per lb.	
SQ	80,000 lbs.	(10,000 units × 8 lbs. per unit)
SP	\$6.00 lb.	
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Labor Cost Variances (2	013)
Learning Objective P2: Compute materials and lal	bor variances.
3,400 hours. G-Max produced 3,500 club hea	as working 5.50 per hour
for the hours worked. Compute the labor rate and efficiency va	ariances.
for the hours worked. Compute the labor rate and efficiency v Direct materials (0.5 lb. per unit at \$20 lb.)	ariances.
for the hours worked. Compute the labor rate and efficiency v Direct materials (0.5 lb. per unit at \$20 lb.) Direct labor 1 hr. per unit at \$16 per hr.)	ariances. \$10.00 <u>16.00</u>

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Labor Cost Variances (3 of 3)						
Learning Objective	e P2: Compu	ite materials	and labor variances.			
Actual Cost			Standard Cost			
Actual Hours	Actual Hours	Actual Hours	Standard Hours			
×	×	×	×			
Actual Rate	Standard Rate	Standard Rate	Standard Rate			
3,400 hours	3,400 hours	3,400 hours	3,500 hours			
×	×	×	×			
\$16.50 per hr.	\$16.00 per hr.	\$16.00 per hr.	\$16.00 per hr.			
\$56,100	\$54,400	\$54,400	\$56,000			
Rate V	ariance	Efficienc	y Variance			
\$1,700 <u>U</u>	nfavorable	\$1,600	Favorable			
		÷				
	\$100 Total Co	st Variance (U)				
SQ = 3,500 units	× 1.0 ho	ur per un	it = 3,500 hours	•		
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Fle	xible Over	rhea	ad E	Budg	gets	5 (1	of 2	2)
Learn	Learning Objective P3: Compute overhead spending and efficiency variances.					су		
(Flexi levels	ble budgets fo of activity)	or ove	rhea	d prep	bared	at se	veral	
	Fc	Flexible or the Mon	G-Max Overhea th Ended	d Budgets May 31, 20)17			
		Variable	Total	Flex	kible Budg	et at Diffe	rent	
		per Unit	Cost	70%	80%	90%	100%	
P	Production in units			3,500	4,000	4,500	5,000	
Т	otal variable costs	\$ 1.00		\$3,500	\$4,000	\$4,500	\$ 5,000	
T	otal fixed costs		\$4,000	\$7 500	\$8,000	\$8.500	\$9,000	
S	tandard direct labor hours			3,500	4,000	4,500	5,000	
P	Predetermined OH rate per standard direct labor hour			\$ 2.14	\$ 2.00	\$ 1.89	\$ 1.80	
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Controllable and Volume Vari for G-Max Learning Objective P3: Compute overhead spending and variances.	ances
Overhead Controllable Variance	
Total overhead variance	\$ 650
Overhead volume variance	<u>500</u>
Controllable variance (unfavorable)	<u>\$ 150</u>
Overhead Volume Variance	
Budgeted fixed overhead (at predicted capacity)	\$ 4,000
Applied fixed overhead (3,500 DLH \times \$ 1.00/DLH	<u>3,500</u>
Volume variance (unfavorable)	<u>\$ 500</u>
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NEED-TO-	-KNOW 21-4 (1 of 4)	
Learning Objective P	3: Compute overhead spending and efficiency variances.	
A manufacturing reports the inform	company uses standard costs and nation below for January. The	
company uses ma and the standard unit.	is two machine hours per finished	
company uses ma and the standard unit.	achine hours to allocate overhead, is two machine hours per finished]
company uses ma and the standard unit. Predicted activity level Variable overhead rate	achine hours to allocate overhead, is two machine hours per finished 1,500 units \$2.50 per machine hour]
company uses ma and the standard unit. Predicted activity level Variable overhead rate Fixed overhead budgeted	achine hours to allocate overhead, is two machine hours per finished 1,500 units \$2.50 per machine hour \$6,000 per month (\$2.00 per machine hour at predicted activity level)	-
Company uses ma and the standard unit. Predicted activity level Variable overhead rate Fixed overhead budgeted Actual activity level	 achine hours to allocate overhead, is two machine hours per finished \$2.50 per machine hour \$6,000 per month (\$2.00 per machine hour at predicted activity level) 1,800 units 	-
Company uses ma and the standard unit. Predicted activity level Variable overhead rate Fixed overhead budgeted Actual activity level Actual overhead costs	 achine hours to allocate overhead, is two machine hours per finished 1,500 units \$2.50 per machine hour \$6,000 per month (\$2.00 per machine hour at predicted activity level) 1,800 units \$15,800 	-

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NE	ED-TO-KI	NON	N 21-4 (3	3 of	4)
Learning	Objective P3: C	omputo varia	e overhead spend nces.	ing and	l efficiency
	Flexible Budge	t	Flexible Budge	t	
	1,800 units		1,800 units		Standard Cost
Actual Overhead	VOH (3,600 MHs × \$2.50)	\$9,000	VOH (3.600 MHs × \$2.50) \$9.000		$\textbf{SQ}\times \textbf{SR}$
\$15,800	FOH	6,000	FOH	6,000	3,600 MHs × \$4.50
	Total Flexible Budget	\$15,000	Total Flexible Budget	\$15,000	\$16,200
<u>`</u>	\$15,000		\$15,000		,
\$	800 Unfavorable		\$1,200	Favorabl	e
Co	ntrollable Variance		Overhead V	olume Va	riance
		\$400 Fa	vorable		
	То	tal Overh	ead Variance		
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	Sales Variances					
	Learning Objective A1: Analyze changes in sales from expected amounts,					
A W	A similar analysis can be applied to sales variances. We will use two additional G-Max products, Excel golf balls and Big Bert drivers, to illustrate. Consider the following sales data from G-Max:					
E C	xcel golf balls and Big Bert drivers, t consider the following sales data from	o illustrate n G-Max:	2.			
E	xcel golf balls and Big Bert drivers, t Consider the following sales data from	o illustrate n G-Max: Budgeted	2. Actual			
E	Excel golf balls and Big Bert drivers, t Consider the following sales data from Sales of Excel golf balls (units)	o illustrate G-Max: Budgeted 1,000 units	Actual			
E	Sales of Excel golf balls (units) Sales price per Excel golf ball	o illustrate n G-Max: Budgeted 1,000 units \$ 10	Actual 1,100 units \$ 10.50			
E	Sales of Excel golf balls (units) Sales of Big Bert drivers (units)	o illustrate G-Max: Budgeted 1,000 units \$ 10 150 units	Actual 1,100 units \$ 10.50 140 units			
E	Sales of Excel golf balls (units) Sales of Big Bert drivers (units) Sales of Big Bert drivers (units)	o illustrate G-Max: Budgeted 1,000 units \$ 10 150 units \$ 200	Actual 1,100 units \$ 10.50 140 units \$ 190			







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Varia	able Overl	head Varia	ances for			
	G-Ma	x (5 of 5))			
Learning Ob	jective P4: Expand accou	led overhead varia Inting system.	nces and standard	cost		
Actual	Flexible Budget	Flexible Budget	Applied			
Variable	for Variable	for Variable	Variable			
Overhead	Overhead at	Overhead at	Overhead at			
Incurred	Actual Hours	Actual Hours	Standard Hours			
$AH \times AVR$	3,400 hrs.×\$1.00	3,400 hrs.×\$1.00	3,500 hrs.×\$1.00			
\$3,650	\$3,400	\$3,400	\$3,500			
Sper	nding Variance	Efficiency	Variance			
\$25	\$250 Unfavorable \$100 Favorable					
	Variable OH Variance					
	\$150 Unfavorable					
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NEED-TO-KNOW 21-6	(2 of 2	2)
Learning Objective P5: Prepare journal entri- and account for price and quantity v	es for standa /ariances.	rd costs
General Journal	Debit	Credit
Work in Process Inventory	75,700	
Direct Materials Price Variance	1,300	
Direct Materials Quantity Variance		3,800
Raw Materials Inventory		73,200
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