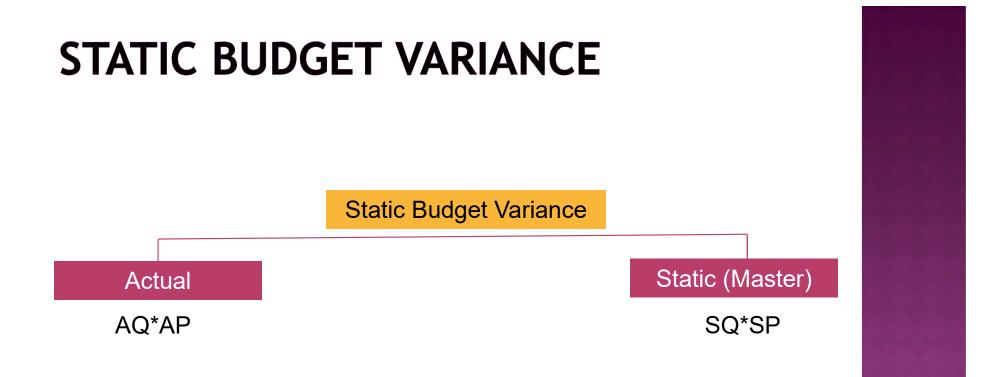
CHAPTER 7

Flexible Budgets, Direct-Cost Variances,

BASIC CONCEPTS

- Variance—difference between actual results and expected (budgeted) performance.
- Management by exception—the practice of focusing attention on areas not operating as expected (budgeted).
- Static (master) budget is based on the output planned at the start of the budget period.



Basic Concepts

- Variance—difference between actual results and expected (budgeted) performance.
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- Static (master) budget is based on the output planned at the start of the budget period.

LEVEL 1 ANALYSIS, ILLUSTRATED

Level 1 Analysis

	Actual Results (1)	Static-Budget Variances (2) = (1) – (3)	Static Budget (3)
Units sold	10,000	2,000 U	12,000
Revenues	\$1,250,000	\$190,000 U	\$1,440,000
Variable costs	19 B	101 100	
Direct materials	621,600	98,400 F	720,000
Direct manufacturing labor	198,000	6,000 U	192,000
Variable manufacturing overhead	130,500	13,500 F	144,000
Total variable costs	950,100	105,900 F	1,056,000
Contribution margin	299,900 ^b	84,100 U	384,000 ^c
Fixed costs	285,000	9,000 U	276,000
Operating income	\$ 14,900	\$ <u>93,100</u> U	\$ 108,000
	1	\$ 93,100 U	•
		Out the build at the stand	

Static-budget variance

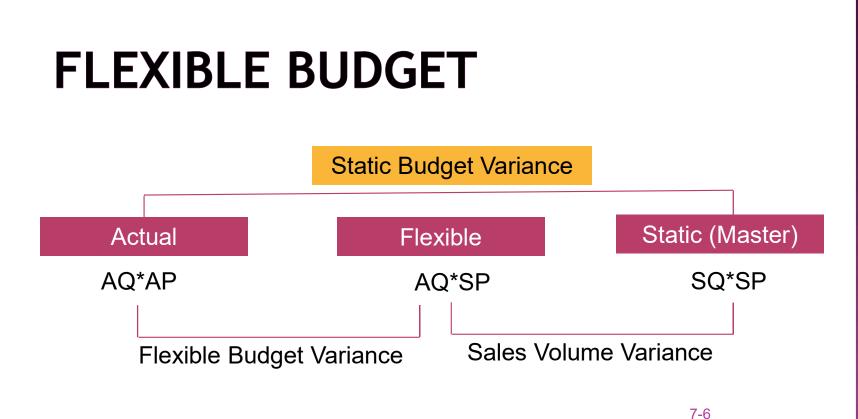
^aF = favorable effect on operating income; U = unfavorable effect on operating income.

^bContribution margin percentage = \$299,900 ÷ \$1,250,000 = 24.0%.

^cContribution margin percentage = \$384,000 ÷ \$1,440,000 = 26.7%.

FLEXIBLE BUDGET

- Flexible budget—shifts budgeted revenues and costs up and down based on actual operating results (activities)
- Represents a blending of actual activities and budgeted dollar amounts
- AQ * SP



LEVEL 2 ANALYSIS, ILLUSTRATED

Level 2 Analysis

	Actual Results (1)	Flexible-Budget Variances (2) = (1) – (3)	Flexible Budget (3)	Sales-Volume Variances (4) = (3) – (5)	Static Budget (5)	
Units sold	10,000	0	10,000	2,000 U	12,000	
Revenues	\$1,250,000	\$50,000 F	\$1,200,000	\$240,000 U	\$1,440,000	
Variable costs						
Direct materials	621,600	21,600 U	600,000	120,000 F	720,000	
Direct manufacturing labor	198,000	38,000 U	160,000	32,000 F	192,000	
Variable manufacturing overhead	130,500	10,500 U	120,000	24,000 F	144,000	
Total variable costs	950,100	70,100 U	880,000	176,000 F	1,056,000	
Contribution margin	299,900	20,100 U	320,000	64,000 U	384,000	
Fixed manufacturing costs	285,000	9,000 U	276,000	0	276,000	
Operating income	\$ 14,900	\$29,100 U	\$ 44,000	\$ 64,000 U	\$ 108,000	
Level 2	↑	\$29,100 U	A	\$ 64,000 U	•	
		Flexible-budget variance		Sales-volume variance		
Level 1	↑		\$93,100 U		•	
		Static-budget variance				

^aF = favorable effect on operating income; U = unfavorable effect on operating income.

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LEVEL 2 VARIANCES, ANALYSIS

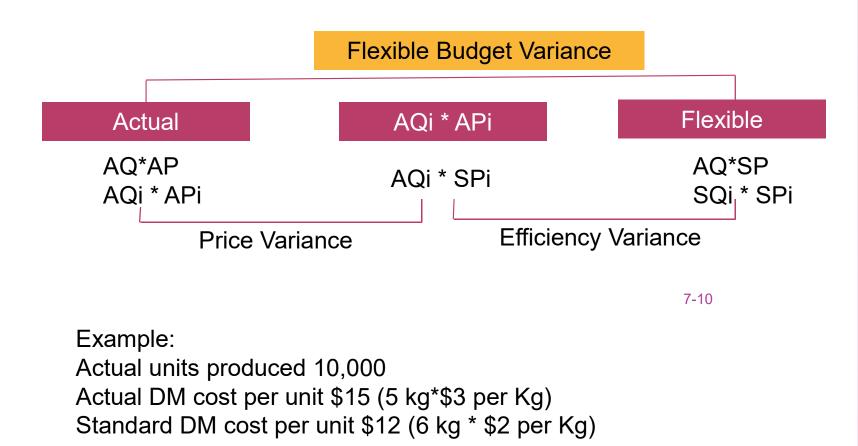
Some possible reasons we might incur an unfavorable Sales-Volume Variance include:

- 1. Failure to execute the sales plan
- 2. Weaker than anticipated demand
- 3. Aggressive competitors taking market share
- 4. Unanticipated market preference away from the product
- 5. Quality problems

LEVEL 3 VARIANCES

- All product costs can have Level 3 variances.
 Direct materials and direct labor will be handled next.
- Direct materials and direct labor both have price and efficiency variances, and their formulae are the same.

DM AND DL LEVEL 3 VARIANCES



LEVEL 3 VARIANCES

• Price variance formula:

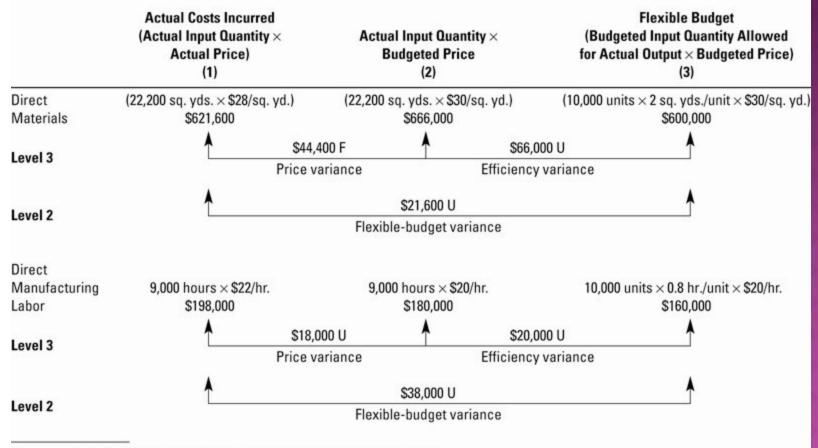
Price			Actual Price	Budgeted Price	٦	V	Actual Quantity	
Variance	=	Ì	Of Input	Of Input	<u>}</u>	Λ	Of Input	

• Efficiency variance formula:

Efficiency Variance = { Actual Quantity Of Input Used	 Budgeted Quantity of Input Allowed for Actual Output 	X Budgeted Price Of Input
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LEVEL 3 ANALYSIS, ILLUSTRATED

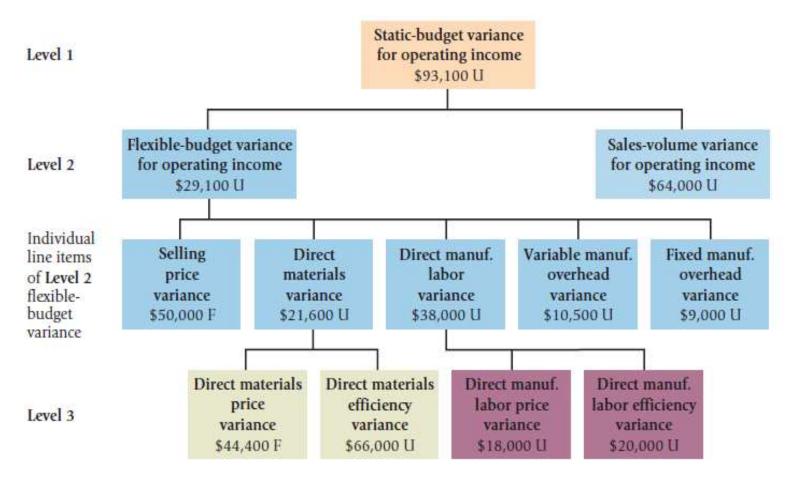
Level 3 Analysis



^aF = favorable effect on operating income; U = unfavorable effect on operating income.

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VARIANCE SUMMARY



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