ACC 406: Cost of Goods Manufactured

TRAIN TO LEARN EFFECTIVELY: TIP SHEETS

What is the Cost of Goods Manufactured?

The cost of goods manufactured summarizes the cost of activities that take place in a manufacturing plant over the period. The manufacturer starts by buying direct materials, which are stored in raw materials inventory until they are needed for production. Only those direct materials used in production are transferred out of raw materials inventory and into work in process (WIP) inventory. During production, the company uses direct labour and manufacturing overhead to convert these direct materials into a finished product. All units currently being manufactured are in WIP inventory. When the units are completed, they are moved out of WIP inventory into finished goods inventory. The amount transferred into finished goods inventory during the year is the cost of goods manufactured. After determining the Cost of Goods Manufactured, it is then used to calculate the Cost of Goods Sold on the Income Statement, as shown in Exhibit 2-13. The Schedule of Cost of Goods Manufactured (Exhibit 2-15) captures the flow of costs through the raw materials and WIP inventory accounts. The Income Statement (Exhibit 2-13) captures the flow of costs through the finished goods inventory account.

The finished units remain in finished goods inventory until they are sold. When the manufacturer sells finished units, the cost of those units becomes the cost of goods sold on the income statement. Costs incurred in nonmanufacturing elements of the value chain are expensed in the period incurred as operating expenses. These operating expenses are deducted from gross profit to obtain operating income.

How do we calculate the Cost of Goods Manufactured?

The formula for the Cost of Goods Manufactured is as follows:

Beginning WIP inventory + Direct materials used + Direct labour + Manufacturing overhead - Ending WIP inventory = Cost of Goods Manufactured

How do we calculate the Cost of Goods Sold?

The formula for the Cost of Goods Sold is as follows:

Beginning finished goods inventory + Cost of Goods Manufactured - Ending finished goods inventory = Cost of Goods Sold

NOTE: The formula for Cost of Goods Sold can also be broken down into 2 parts.

Beginning finished goods inventory + Cost of Goods Manufactured = Cost of goods available for sale

Cost of goods available for sale - Ending finished goods inventory = Cost of Goods Sold

Page 1 of 3





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Example 1:

Exhibit 2-15 Schedule of Cost of Goods Manufactured

TOP-FLITE Schedule of Cost of Goods Manufactured Year Ended December 31, 2017					
Beginning work in progress inventory	\$ 2,000				
Add: Direct materials used					
Beginning raw materials inventory* \$ 9	,000				
· · · —	7,000				
	5,000				
	2,000)				
Direct materials used	\$14,000				
Direct labour	19,000				
Manufacturing overhead:					
Indirect materials\$ 1	,500				
Indirect labour	,500				
Depreciation—plant and equipment	,000				
Plant utilities, insurance, and property taxes	,000				
Manufacturing overhead	12,000				
Total manufacturing costs incurred during year	45,000				
Total manufacturing costs to account for	47,000				
Less: Ending work in process inventory	(5,000)				
Costs of goods manufactured	\$42,000				
*For simplicity, we assume that Top-Flite's Raw Materials Inventory account contains indirect materials as soon as they are purchased.	only direct materials because the company uses				

Exhibit 2-13 Manufacturer's Income Statement

TOP-FLITE Income Statement Year Ended December 31, 2017				
Sales revenue		\$65,000		
Cost of goods sold:				
Beginning finished goods inventory	\$ 6,000			
Cost of goods manufactured*	42,000			
Cost of goods available for sale	48,000			
Ending finished goods inventory	(8,000)			
Cost of goods sold		40,000		
Gross profit		25,000		
Operating expenses:				
Sales salary expense	3,000			
Delivery expense	7,000			
Operating income		10,000		
		\$15,000		
*From the Schedule of Cost of Goods Manufactured in Exhibit 2-15.				

Page 2 of 3





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Example 2:

Example 2:				
Monthly schedule cost of goods man	ufactured and income statement o	of Chili Mar	nufacturing	Company.
Chili Manufa	acturing Company			
Schedule of Cost	of Goods Manufactured			
Month Ended Jur	ne 30, 2020			
Beginning Work in Process Inventory	,		27000	
Add: Direct Materials Used				
Beginning raw materials inventory	24000			
Purchases of direct materials	56000			
Available for use	80000			
Ending raw materials inventory	-28000			
Direct Materials Used		52000		
Direct Labour		79000		
Manufacturing Overhead		43000		
Total manufacturing costs incurred d	uring the month		174000	
Total manufacturing costs to accoun	t for		201000	
Less: Ending Work in Process Invento	pry		-21000	
Cost of Goods Manufactured			180000	

	Chili Manufacti	uring Company	
	Income Statement Month ended June 30, 2020		
Sales Revenue			470000
Cost of Goods Sold			
Beginning finishe	d goods inventory	114000	
Cost of Goods Ma	nufactured*	180000	
Cost of goods ava	ilable for sale	294000	
Ending finished g	oods inventory	66000	
Cost of Goods Sold			228000
Gross Profit			242000
Operating expenses	s:		
Marketing expense		98000	
Administrative expe	ense	68000	
Total expenses			166000
Operating income			76000
*From the Schedule	e of Cost of Good	s Manufactured	





