# **AFA 200: 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

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### Example 1:

Fyhihit 2-15	Schedule of Cost of Goods Manufactured
EXHIDIC Z-15	Schedule of Cost of Goods Manufactured

	\$ 2,000
\$14,000	
19,000	
12,000	
	45,000
	47,000
	(5,000)
	\$42,000
	naterials because

#### 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.			







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### Example 2:

Monthly schedule cost of goods manufactured and income statement of Chili Manufacturing Company.

C	hili Manufacturing	Company			
Schedule of Cost of Goods Manufactured					
Month	n Ended June 30, 20	)20			
Beginning Work in Process Inventory				27000	
Add: Direct Materials Use	d				
Beginning raw materials	inventory	24000			
Purchases of direct mate	erials	56000			
Available for use		80000			
Ending raw materials inv	ventory	-28000			
Direct Materials Used			52000		
Direct Labour			79000		
Manufacturing Overhead			43000		
Total manufacturing costs incurred during the month		e month		174000	
Total manufacturing costs to account for				201000	
Less: Ending Work in Process Inventory				-21000	
Cost of Goods Manufactur	red			180000	

	Chili Manufacturing Company Income Statement		
Income Stateme			
Month ended Ju	Month ended June 30, 2020		
Sales Revenue		470000	
Cost of Goods Sold:			
Beginning finished goods inventor	114000		
Cost of Goods Manufactured*	180000		
Cost of goods available for sale	294000		
Ending finished goods inventory	66000		
Cost of Goods Sold		228000	
Gross Profit		242000	
Operating expenses:			
Marketing expense	98000		
Administrative expense	68000		
Total expenses		166000	
Operating income		76000	
*From the Schedule of Cost of Good	ls Manufactured		

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