

Business Finance

Session 7

Determination of Relevant Cost



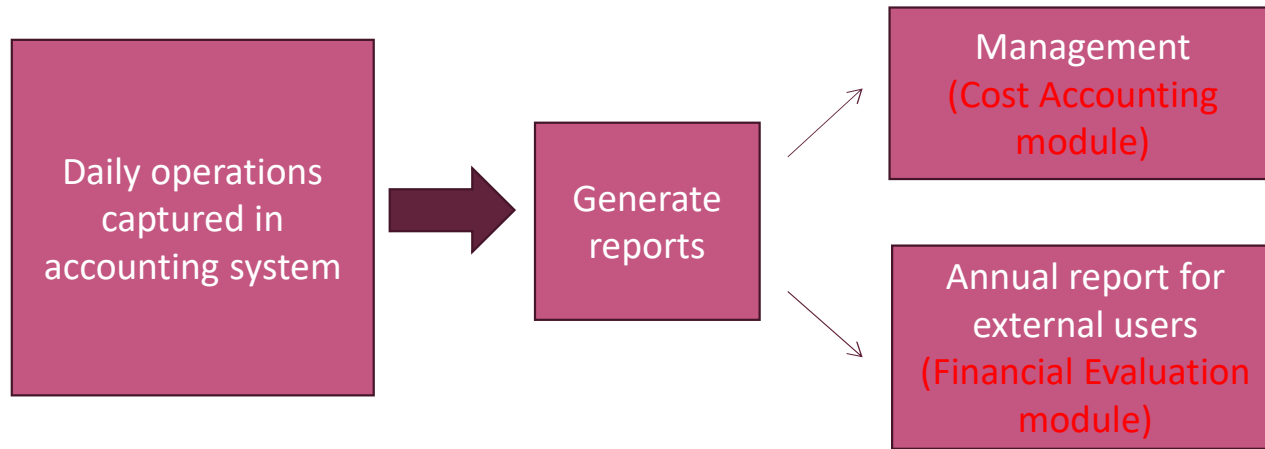
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Managerial accounting: objectives and outcomes



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At the end of this session ...



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- What does Value Creation mean?
- How does Financial Accounting differ from Cost Accounting?
- Why is Cost information useful in an organisation?
- What are the latest trends in Cost Accounting?
- Ethical Implications of Cost Accounting
- What does the term “Cost” mean?
- How are Costs presented in the financial statements?
- How do we allocate Cost to the Product/Service?
- How are costs added at different stages of the Production Process?
- How do different costs behave?
- What is the difference between Absorption and Variable Costing?

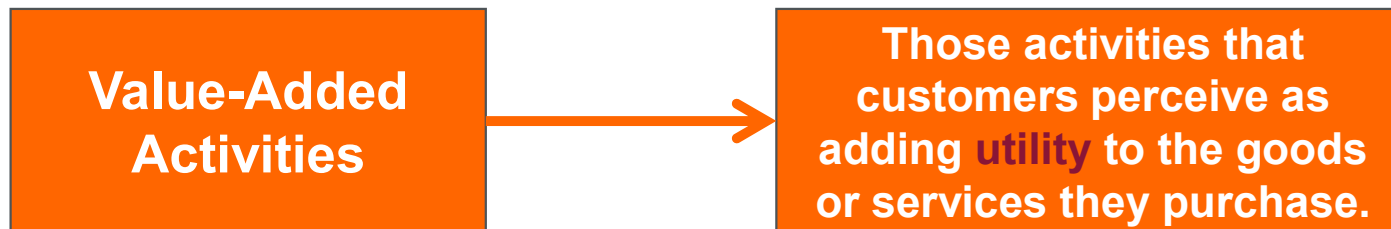


Value Chain

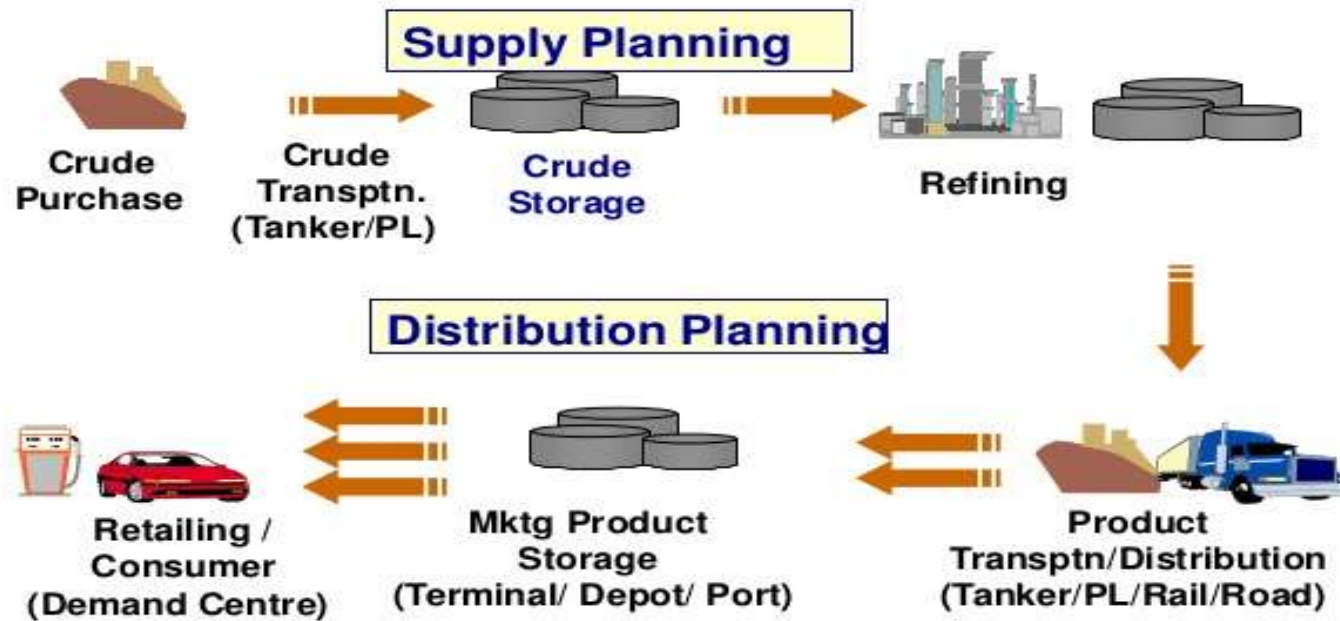


LO 1-1 Describe the way managers use accounting information to create value in organizations.

The **value chain** describes a set of activities that transforms raw materials and resources into the goods and services end users purchase and consume.



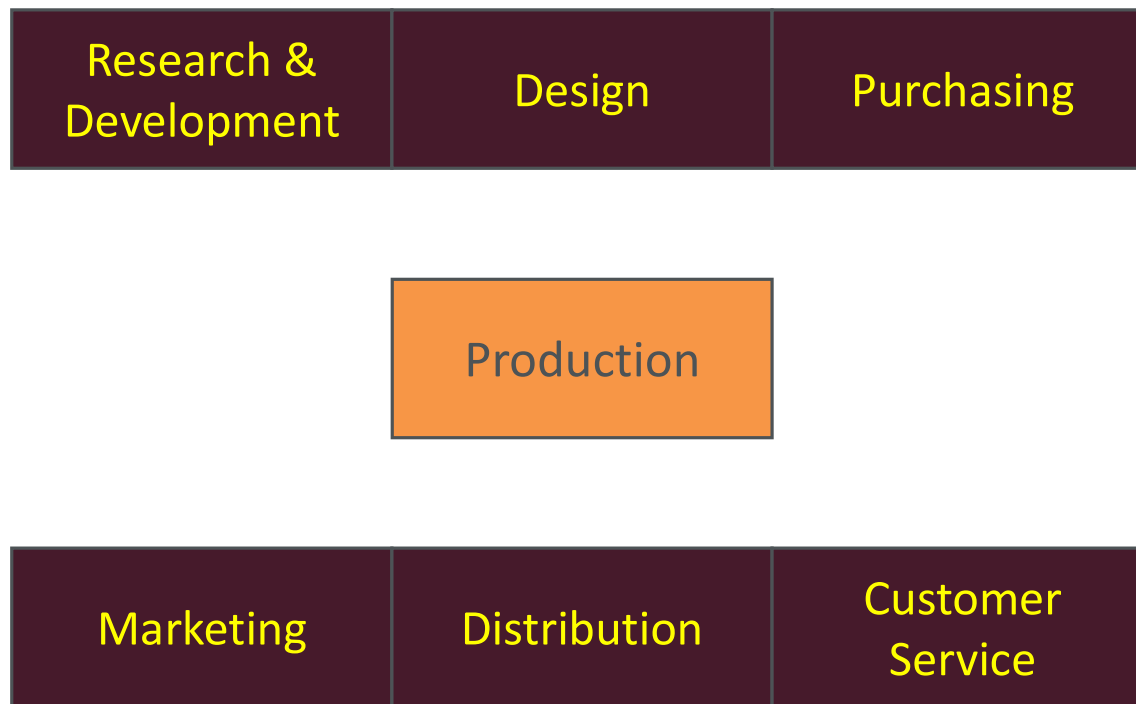
SUPPLY CHAIN IN PETROLEUM INDUSTRY



The Value Chain Components



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Small group discussion (break-out rooms)

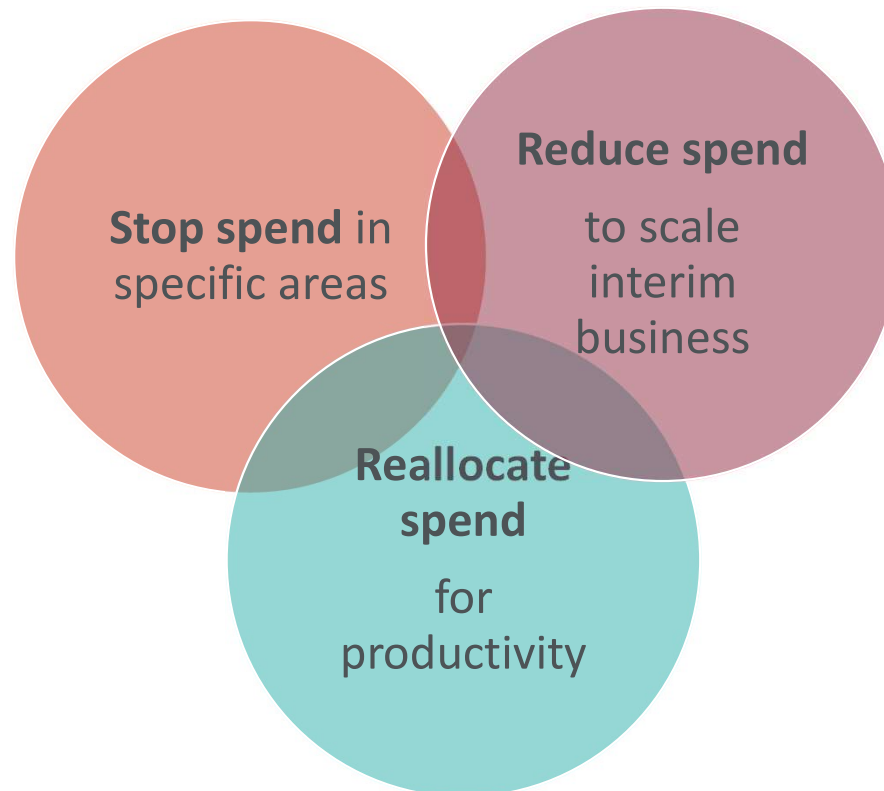
(source: Deloitte, 2020)



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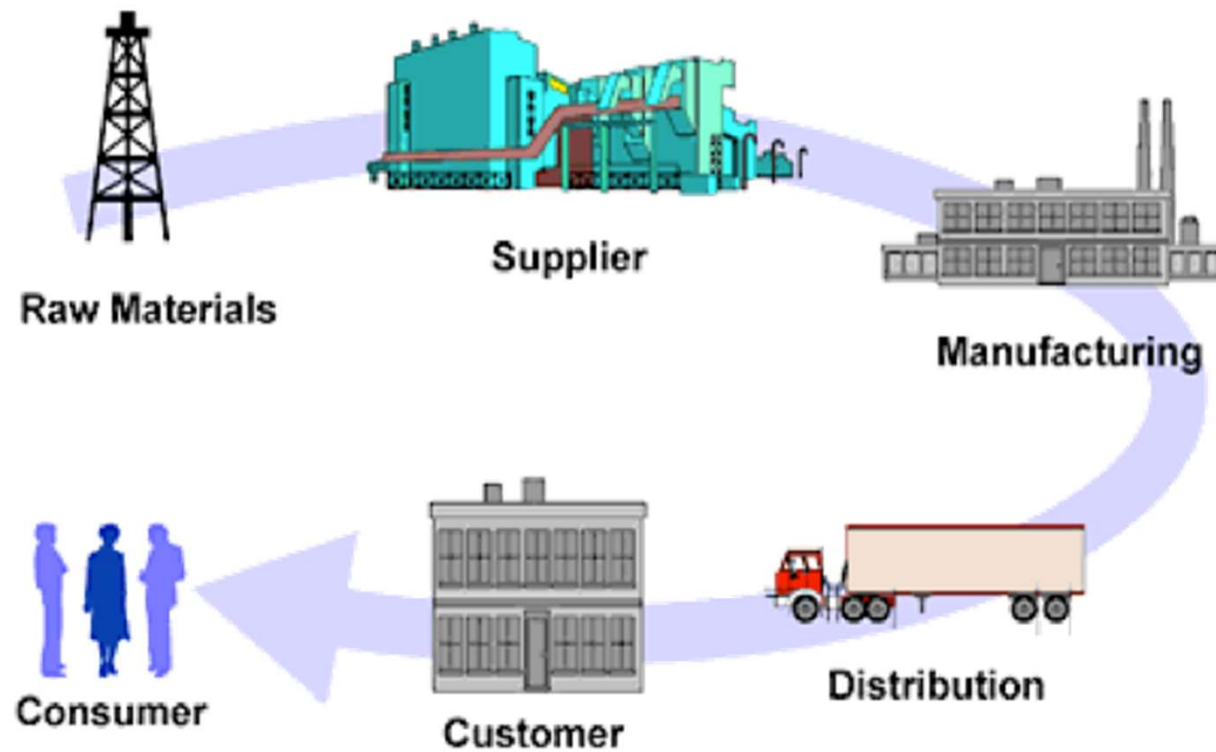
- How do we or can we apply *right-sizing* in my business' value chain?



Value Chain: Supply chain + distribution chain



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Example: Shoprite

- Sophisticated supply chain
- Outlets in 15 countries
- Strategically placed Distribution Centres linking vendors and outlets
- What are the benefits?



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Managerial Decisions



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LO 1-3 How is cost information useful in an organisation?

Woolworths
example

Individuals make decisions.

Decisions determine the performance of the
organisation.

Managers use information from the accounting system
to make decisions.

Owners evaluate organisational and managerial
performance with accounting information.



WOOLWORTHS STATEMENT OF COMPREHENSIVE INCOME - YE 2018



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Operating profit		5 259	6 206
Impairment due to re-assessment of David Jones assets	9	6 927	–
Profit on sale of property in Sydney, net of impairment		–	1 420
Profit on sale of property		–	1 762
Impairment due to sale of property		–	342
Investment income	2	71	96
Finance costs	3.6	1 124	1 256
(Loss)/profit before earnings from joint ventures and associate		(2 721)	6 466
Earnings from joint ventures	29	287	260
(Loss)/profit before tax	3	(2 434)	6 726
Tax	4	1 115	1 278
(Loss)/profit for the year		(3 549)	5 448



WOOLWORHTS STATEMENT OF FINANCIAL POSITION - YE 2018



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GROUP STATEMENT OF FINANCIAL POSITION

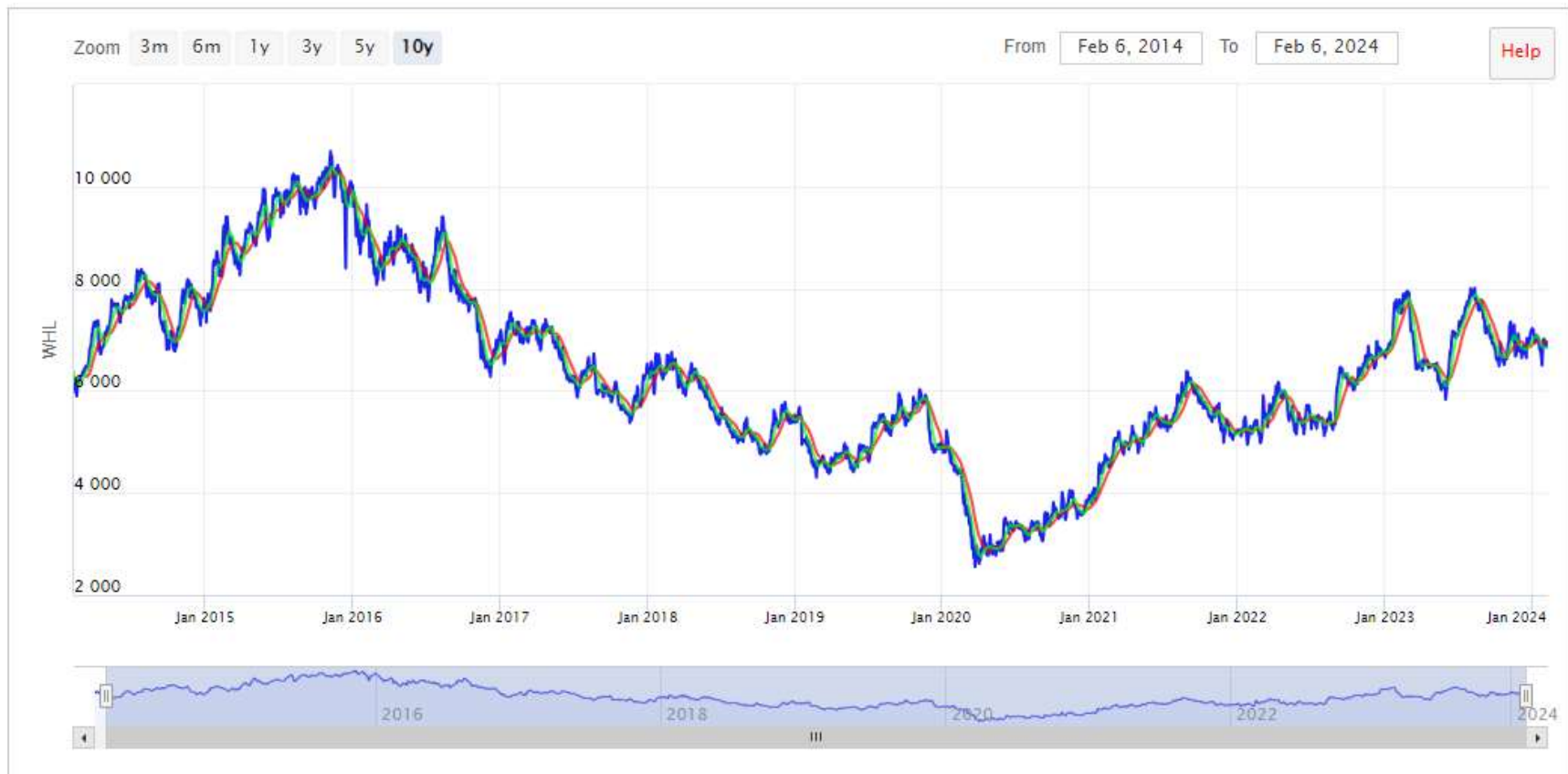
	Notes	At 24 June 2018 Rm	At 25 June 2017 Rm
ASSETS			
Non-current assets		28 650	34 706
Property, plant and equipment	8	13 959	13 846
Intangible assets	9	13 410	19 595
Investment in joint ventures	29	978	1 015
Fair value lease adjustment	13	59	65
Other loans	10	56	42
Derivative financial instruments	14	18	3
Deferred tax	11	170	140
Current assets		11 497	10 287
Inventories	12	7 542	6 990
Trade and other receivables	13	1 487	1 218
Derivative financial instruments	14	174	40
Tax	26.3	271	252
Cash and cash equivalents	26.4	2 023	1 787
TOTAL ASSETS		40 147	44 993



WOOLWORTHS 10 YEAR



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Differential Revenues and Costs



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Revenues or costs that change in response to a particular course of action.

Differential revenues or costs change (differ) between actions.



Case Study: Julia's Candle Shop



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Projected Income Statement For One Month

	Status Quo: Run Business “As Is”	Alternative: Associate with Supermarket		Difference
Sales revenue	<u>R40,000</u>	<u>R56,000</u>	^a	<u>R16,000</u>
Costs:				
Wax	8000	11600	^b	3600
Supplies	3000	4350	^b	1350
<u>Labour</u>	6000	8700	^b	2700
Utilities	2500	2750	^c	250
Rent	7200	7200		0
Licensing fee	0	10000		10000
Other costs	<u>3500</u>	<u>4200</u>	^d	<u>700</u>
Total costs	<u>30,200</u>	<u>48,800</u>		<u>R18,600</u>
Operating profits	<u>R 9800</u>	<u>R 7200</u>		<u>R(2,600)</u>

^a Increase by 40%

^b Increase by 45%

^c Increase by 10%

^d Increase by 20%



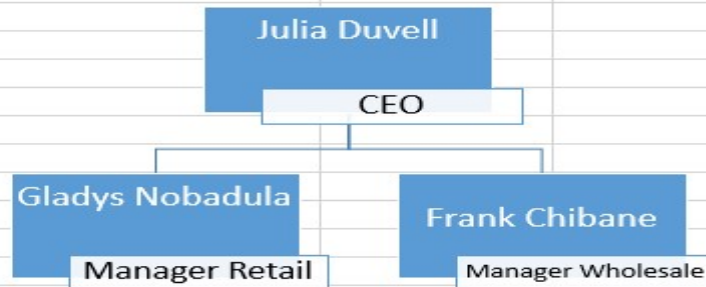
Costs for Control and Evaluation



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A responsibility center is a specific unit of an organisation assigned to a manager who is held accountable for its operations and resources.





Income Statement for the month of July

	Retail division	Wholesale Division	Total
	R	R	R
Sales revenue	200,000	300,000	500,000
Divisional costs	90,000	170,000	260,000
Wax	20,000	60,000	80,000
Supplies	30,000	65,000	95,000
Salaries and wages	40,000	45,000	85,000
Divisional margin	110,000	130,000	240,000
Total general and administrative costs			150,000
General manager salary (Julia)			60,000
General administrative costs			90,000
Operating profit			90,000



Analysis			
Profit %	55%	43%	18%

	Julia's Candle Shop		
	Income Statement for the month of June		
	Actual	Budget	Difference
	R	R	R
Sales revenue	<u>40,000</u>	42,000	(2,000)
Costs:			
Wax	8,000	8,500	(500)
Supplies	3,000	2,500	500
Labour	6,000	5,500	500
Utilities	2,500	2,400	100
Rent	7,200	7,200	-
Licensing fee	200	210	(10)
Other costs	<u>5,000</u>	<u>3,500</u>	<u>1,500</u>
Total costs	<u>30,200</u>	<u>29,810</u>	<u>390</u>
Operating profits	<u>9,800</u>	<u>12,190</u>	<u>(2,390)</u>
Number of candles sold	5,000	5,000	-



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Trends in Cost Accounting



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LO 1-4 Identify current trends in cost accounting.

1. Research and development
2. Design
3. Purchasing
4. Production
5. Marketing
6. Distribution
7. Customer service
8. ERP – Enterprise resource planning
9. Creating value in the organization



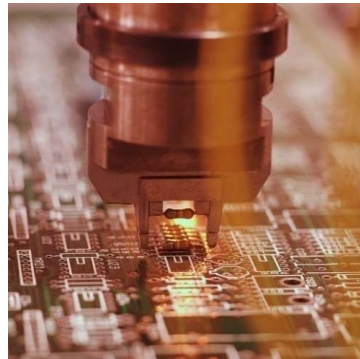
Cost Accounting in Research and Development



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Lean manufacturing techniques are not simply about production.

Companies partner with suppliers in the development stage to ensure cost-effective designs for products.



Cost Accounting in Purchasing



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Performance measurement indicates how well a process is working.

Benchmarking methods measure products, services, and activities against the best performance.



Cost Accounting in Production



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A lean accounting system provides measures at a work cell or process level.

JIT is an inventory system designed to lower the cost of maintaining excess inventory.



Cost Accounting in Distribution



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Outsourcing occurs when a firm's activities are performed by another organization or individual in the supply or distribution chain.

Nikon, for example, relies on UPS for distribution.



Ethical Issues

LO 1-5 Ethical Issues for Accountants

South Africa: King report



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What is a Cost?

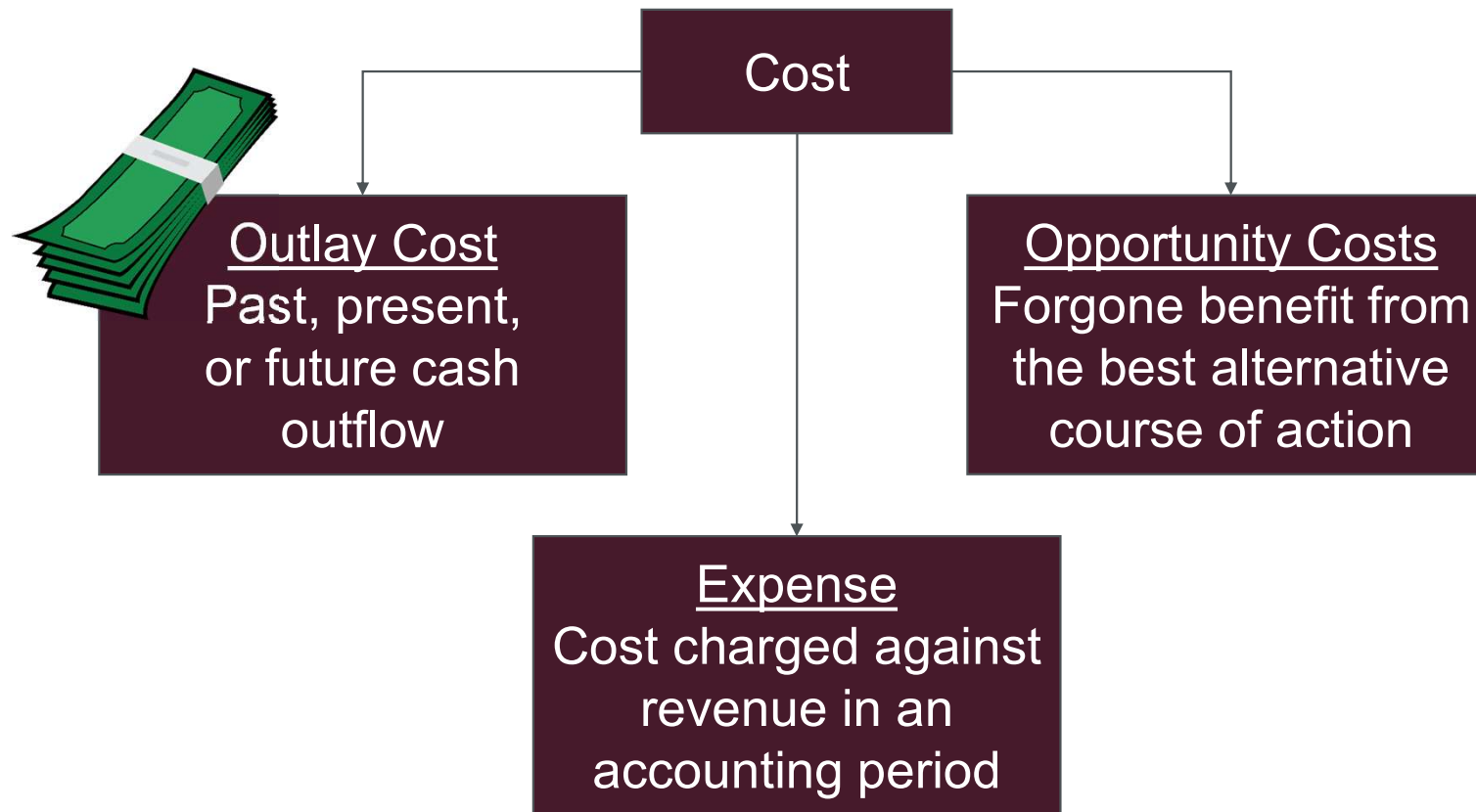


LO 2-1 Explain the basic concept of “cost.”

Cost is a sacrifice of resources.



Cost versus Expenses



Presentation of Costs in Financial Statements (Service)



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LO 2-2 Explain how costs are presented in financial statements.

Cape Town Tours Travel Agency				
Income Statement				
For the year ended 31 December 2016				
				Rands
Service Revenue				1,500,400
Cost of services sold				679,000
	Gross profit margin			821,400
Marketing and administrative costs				125,000
	Operating profit (EBIT)			696,400



**Cost of
billable
hours**

The excess of operating revenue over costs
necessary to generate those revenues

Presentation of Costs in Financial Statements (Service)



LO 2-2 Explain how costs are presented in financial statements.

Cape Town Tours Travel Agency				
Income Statement				
For the year ended 31 December 2016				
			Rands	
Service Revenue			1,500,400	
Cost of services sold			679,000	
Gross profit margin			821,400	55% GP%
Marketing and administrative costs			125,000	
Operating profit (EBIT)			696,400	46% OP%
Finance charges			48,000	
Net profit before income tax			648,400	
Income Tax			181,552	
Net profit after tax			466,848	31% NP%

Presentation of Costs in Financial Statements (Retail)



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The Clothing Shop Income Statement For the year ended 31 December 2016				Rands
Sales Revenue				4,501,200
Cost of good sold (see below)				2,376,500
Gross profit margin				2,124,700
Marketing and administrative costs				500,000
Operating profit (EBIT)				1,624,700

Expense assigned to products sold during a period

				Rands
Beginning inventory (1 Jan 2016)				203,500
Cost of good purchased				2,723,000
Merchandise cost		2,598,000		
Transport in cost		115,000		
Cost of goods available for sale				2,926,500
Less cost of good in ending inventory (31 Dec 2016)				550,000
Cost of goods sold				2,376,500

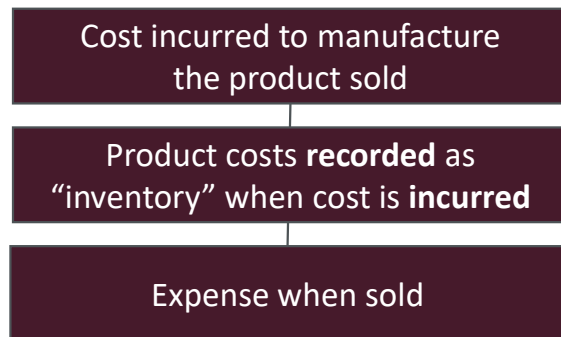
Eg. import taxes



Presentation of Costs in Financial Statements (Manufacturing)



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JACKSON GEARS Income Statement For the Year Ending December 31, Year 2 (\$000)

Sales revenue	\$20,450
Cost of goods sold (see Exhibit 2.8)	13,100
Gross margin	\$ 7,350
Less marketing and administrative costs	3,850
Operating profit before taxes	<u>\$ 3,500</u>

Period costs recorded as
an expense in the period
the cost is incurred



Product versus Period Costs



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Two types of manufacturing costs:

Product costs:
Costs related to
inventory



Period costs:
Non-manufacturing
costs related to the firm



LO 2-
2

Product versus Period Costs



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Product costs:
Costs related to
inventory

Product costs:
All costs incurred :
To bring inventory to location
And condition ready to sell



Product versus Period Costs



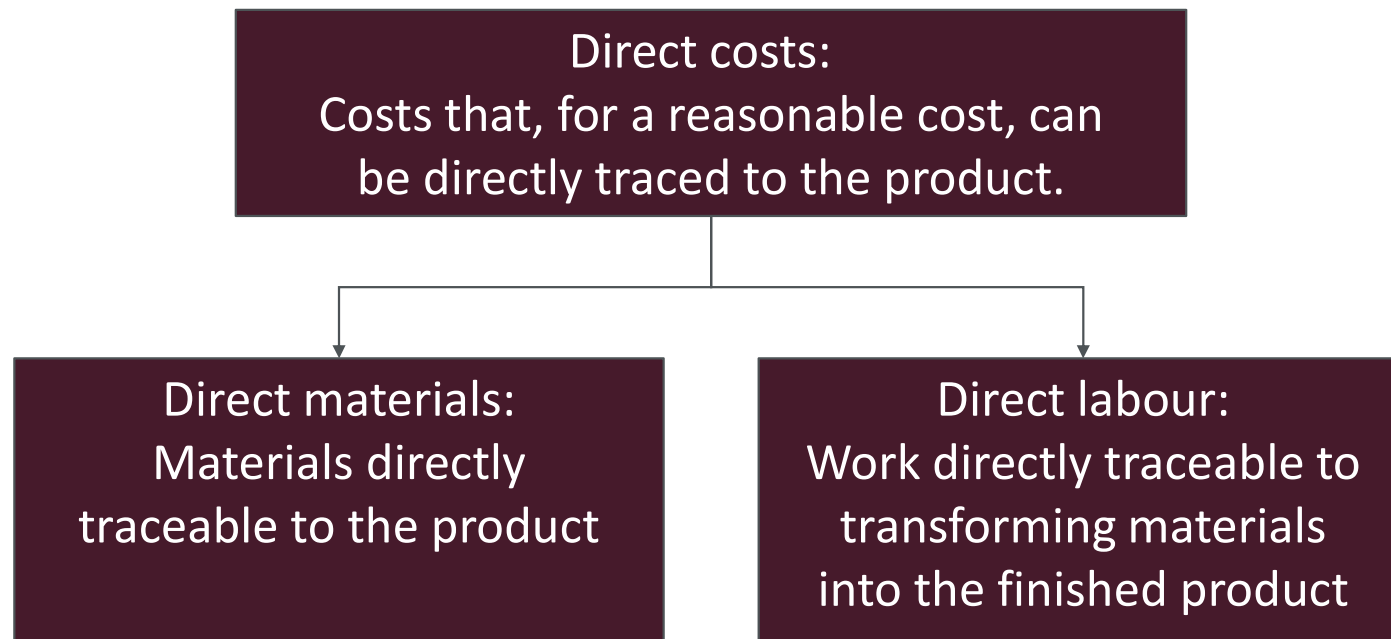
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Product costs:
Costs that are recorded
as an **asset** in **inventory** when
incurred and **expensed** as
Cost of Goods Sold **when sold**

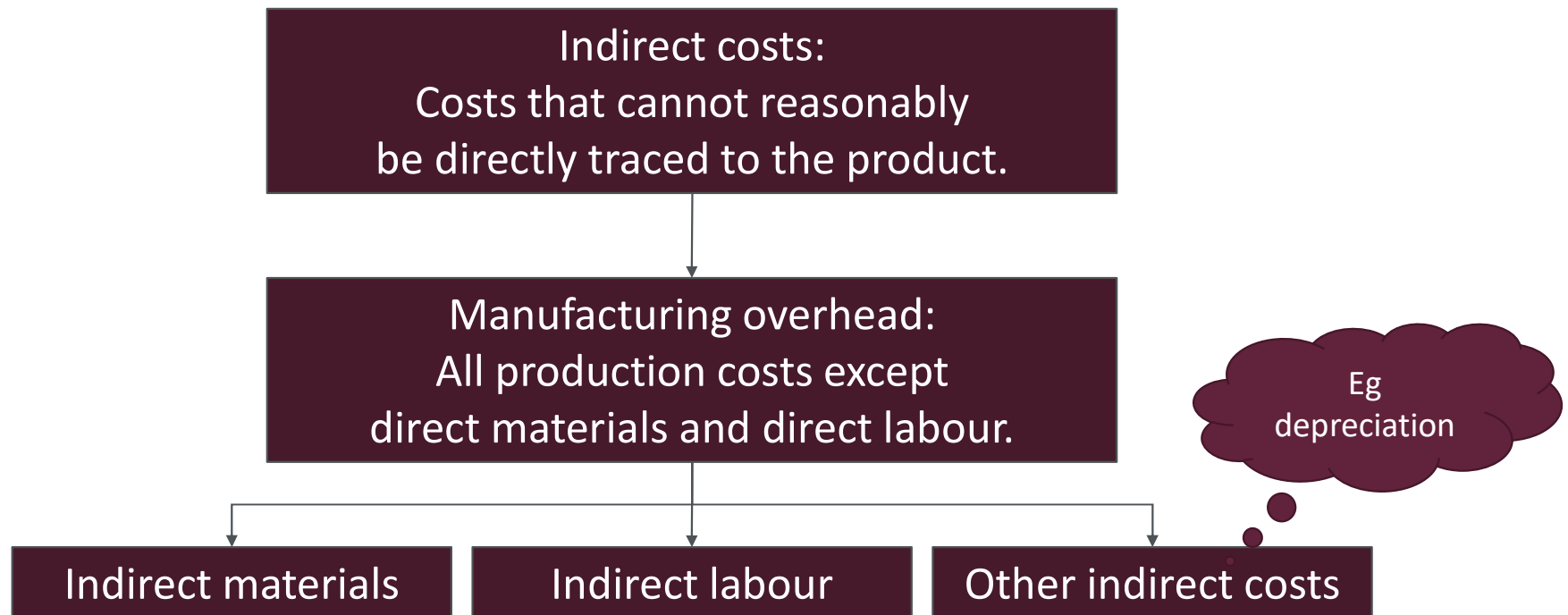
Period costs:
Costs recognized for financial
reporting when incurred
(expensed immediately)



Product (manufacturing) Costs: Direct and Indirect Costs



Product (manufacturing) Costs: Direct and Indirect Costs

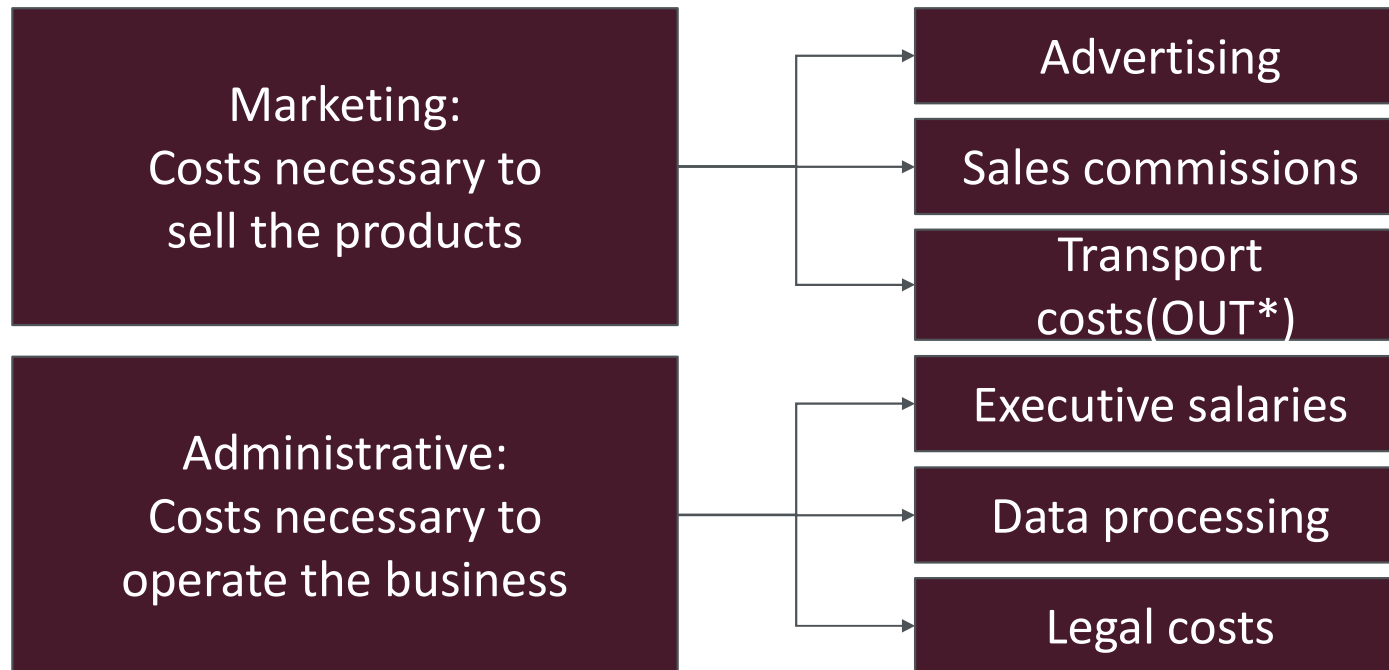


Non-manufacturing (Period) Costs



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Recognised as **expenses** when the costs are incurred



Cost Allocation



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LO 2-3 Explain the process of cost allocation.

It is the process of assigning **indirect** costs to products, services, business units, etc.



Cost Allocation



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1. Define the cost pool:
The collection of costs to be assigned to cost objects
2. Determine the cost allocation rule:
The method used to assign costs in the cost pool to cost objects
 - Example based on revenue, square meters, time
3. Assign the costs in the cost pool to the cost object:
Any end to which a cost is assigned – product, product line, department, customer, etc.

Details of Manufacturing Cost Flows



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LO 2-4 Understand how material, labor, and overhead costs are added to a product at each stage of the production process.

Product costs are recorded in inventory when costs are incurred.

A manufacturing company has three inventory accounts:

1. Raw Materials Inventory:
Materials purchased to make a product
2. Work-in-Process Inventory:
Products currently in the production process,
but not yet completed
3. Finished Goods Inventory:
Completed products that have not yet been sold



Inventory Accounts - The Balance Sheet





- Cost Behaviour
- See Video loaded under this session

Watch on
Learning
Hub!

Cost Behavior

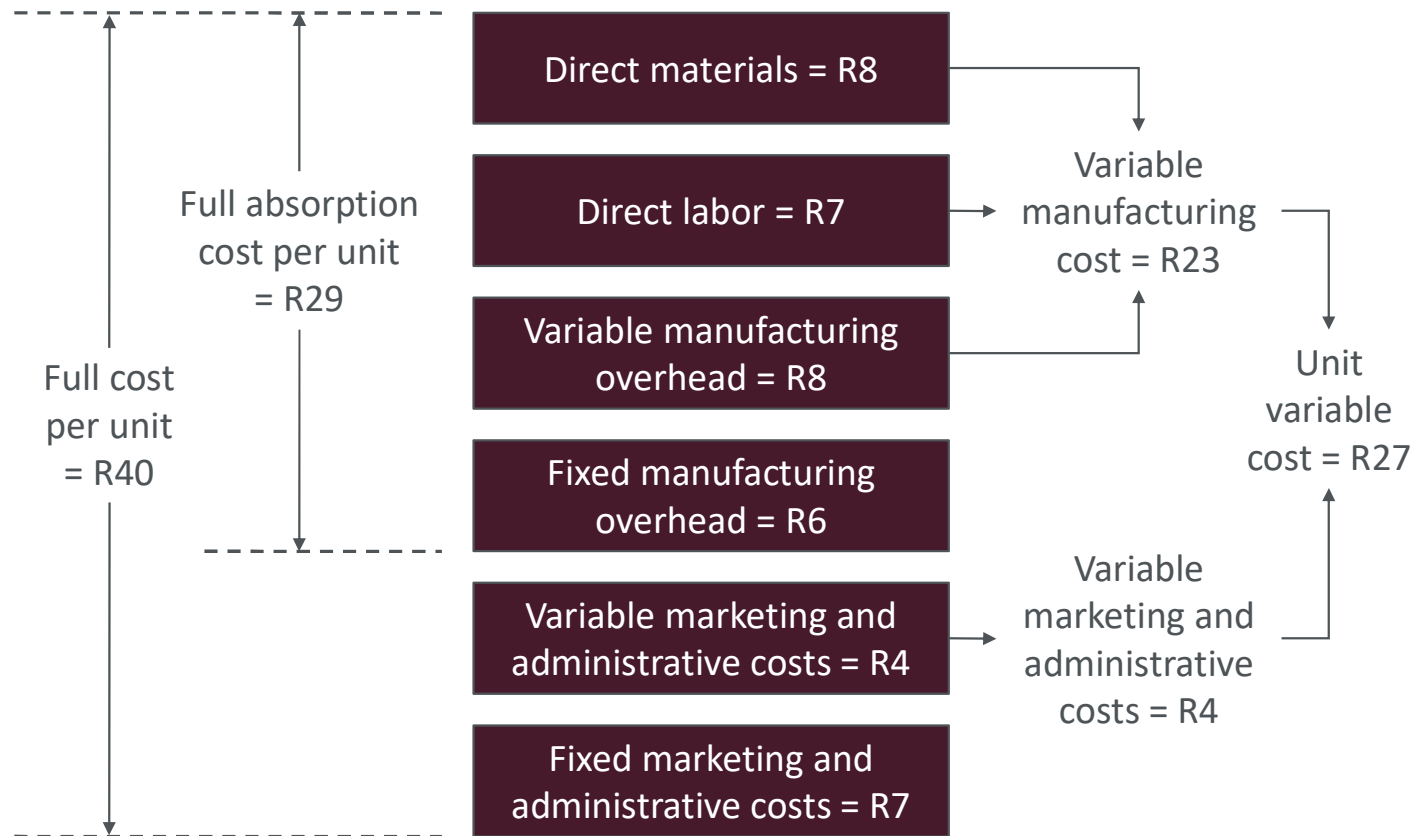
This video covers
LO 2-5 in your slide
deck

LO 2-5 Define basic cost behaviors, including fixed, variable, semivariable, and step costs.

Cost behavior:
How costs respond to a change in
activity level within the relevant range

Relevant range:
Activity levels within which a given total fixed
cost or unit variable cost will be unchanged

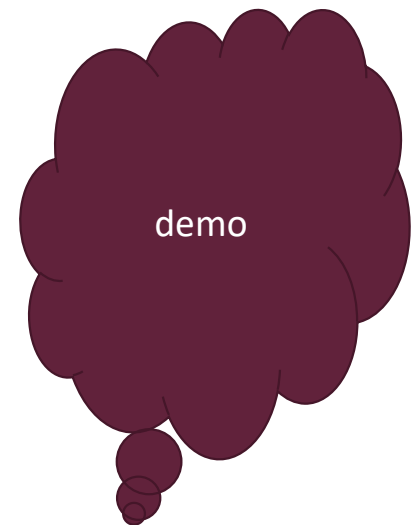
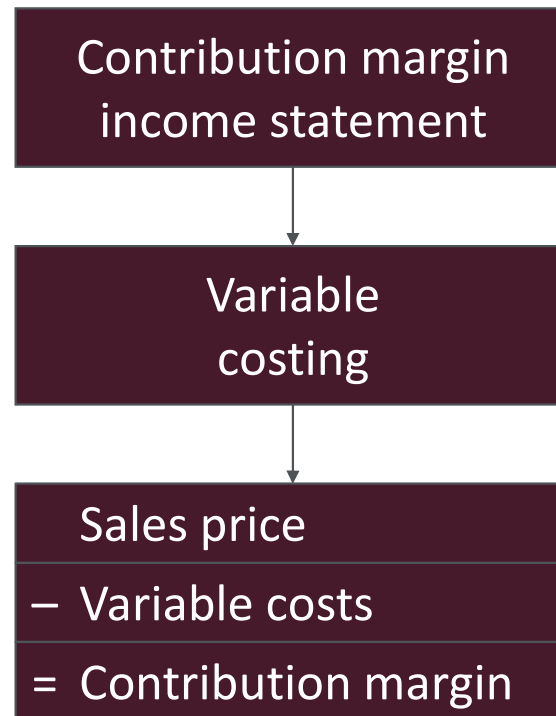
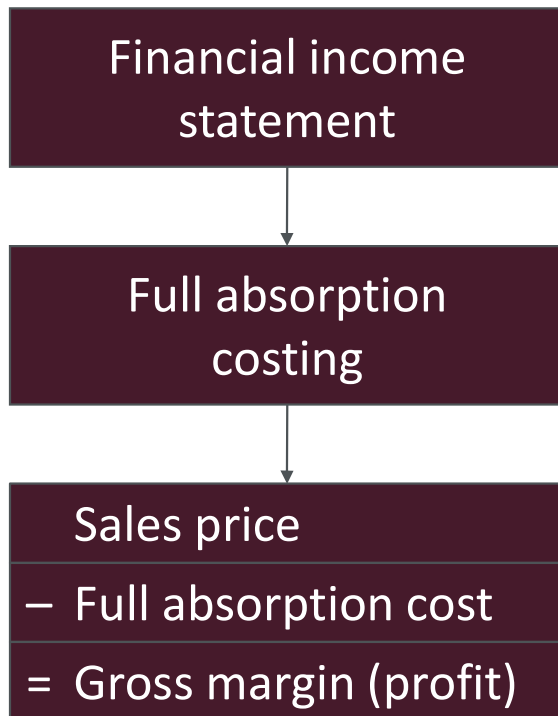
Components of Product Costs



Making Cost Information Useful



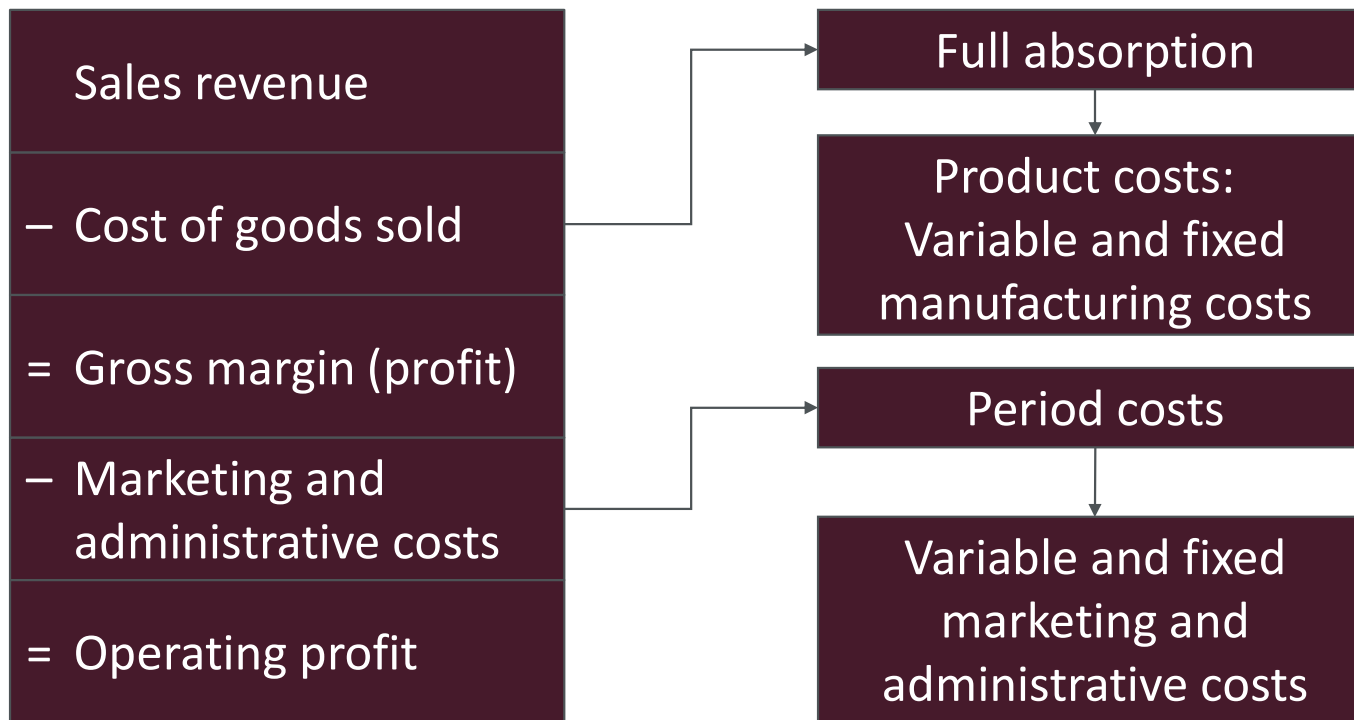
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Income Statement: Full Absorption Costing



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Income Statement: Variable Costing



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