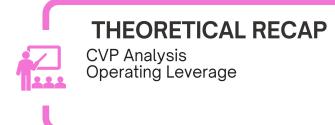


Management Accounting

Fall 2024
Practical class 12
TA Francisca Caldas



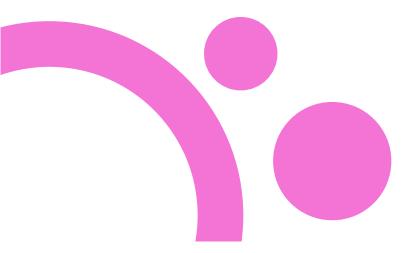
AGENDA





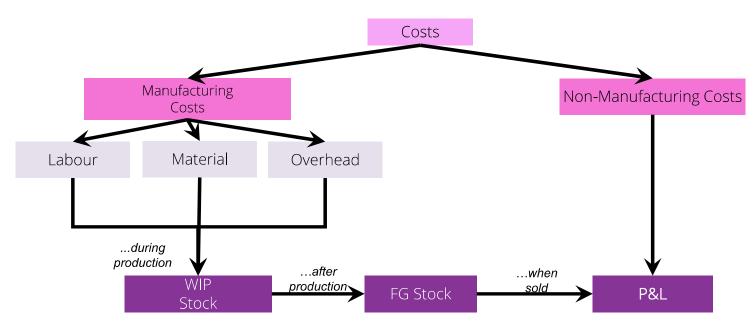
CHAPTER 8 and 9

Problem 31



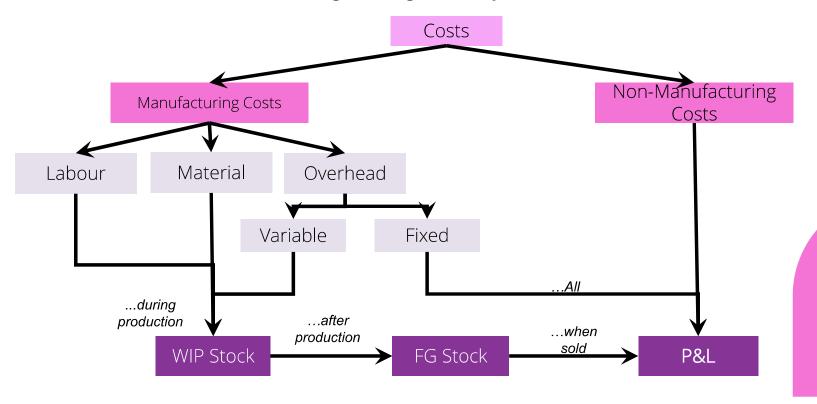
Alternative Costing System

- So far, we have (Absorption or full costing system):
 - Allocate all manufacturing cost to products, and to value unsold inventories at their total cost of manufacture
 - Non-manufacturing costs were not allocated to the products but were charged directly to the P&L and excluded from the inventory valuation (period costs)



Alternative Costing System

- Variable Costing System
 - Manufacturing costs: only the variable costs go to the product
 - Non-manufacturing costs go directly to the P&L



Alternative Costing System In between we have:

Full Costing Based on Practical Capacity

Assigns variable manufacturing costs plus a share of total manufacturing fixed costs to products, after taking into account practical capacity (The production that is likely to be produced by the machine after taking into consideration unavoidable interruptions arising from machine maintenance and plant holiday closures)

Full Costing Based on Budgeted Activity

Assigns variable manufacturing costs plus a share of the total manufacturing fixed costs to products, after taking into account the budgeted activity (the activity level [volume of production] based on the capacity utilization required for the next budget period)

Alternative Costing System

Summing up

Type of System	COGM	Under-recovery of OH (UROH)
Variable Costing	MVC u * Real Production	MFC
Total Full Costing	MVC u * Real production + MFC	0
Full Costing Based on Practical Capacity	MVC u * Real production + MFC * Real Production Practical Capacity	MFC * $(1 - \frac{\text{Real Production}}{\text{Practical Capacity}})$
Full Costing Based on Budgeted Activity	MVC u * Real production + MFC * Real Production Budgeted Activity	MFC * (1 - $\frac{\text{Real Production}}{\text{Budgeted Activity}}$)

Key takeways from exercise

DIFFERENCES IN Π USING ALTERNATIVE COSTING SYSTEMS

PRODUCTION > SALES

• We have increasing stock levels, so full costing systems produces higher profits

SALES < PRODUCTION

• We have decreasing stock levels, and for that reason variable costing systems produces higher profits

SALES = PRODUCTION

• Profits are the same for any costing system

Cost Volume – Profit Analysis

P&L IN THE CM FORMAT

P&L in CM Format		
(+)	1. Sales	
(-)	2. Cost of Goods Sold (COGS) under Variable Costing	
(=)	3. Gross Profit	
(-)	4. Non-Manufacturing Variable Costs	
(=)	5. Contribution Margin	
(-)	6. Manufacturing Fixed Costs	
(-)	7. Non-Manufacturing Fixed Costs	
(=)	8. Operating Profit	

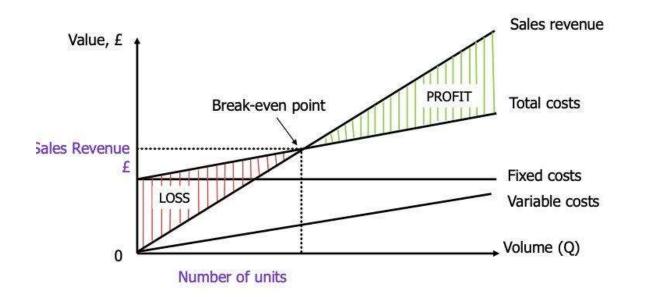
*NOTE: Contribution Margin "includes" both manufacturing and non-manufacturing costs as longs as they are Variable!; All fixed costs are recognized afterwards

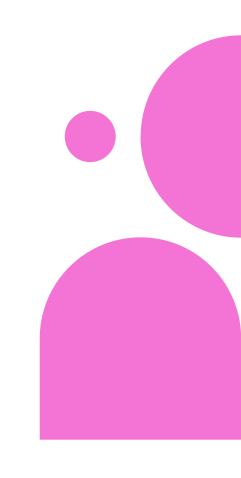
Cost Volume - Profit Analysis

Break Even Point:

Level of Sales (in € or units) that makes Total Costs = Total Revenues and profit = 0

BEP un =
$$\frac{Fixed\ Costs}{SP\ un\ -VC\ un}$$





Cost Volume - Profit Analysis

Safety margin

Safety Margin 1: By how much sales are above BEP

SM 1 =
$$\frac{Sales - BEP}{BEP}$$

• Safety Margin 2: How much sales may decrease before the firm starts incurring in a loss

SM 2 =
$$\frac{Sales - BEP}{Sales}$$

*NOTE: Safety Margins can be calculated with either BEP/Sales in units or € (you only need to be careful with consistency)