

Chapter :- Activity Based Costing

Cost Ascertainment

Dm	xx	} Direct cost
DL	xx	
Overhead	xx	} Indirect cost.
Total cost	<u>xx</u>	

Direct Cost

⇒ Directly attributable to product.

Indirect cost

⇒ Allocated to product

Method of Allocation

1. Traditional Costing

⇒ Absorb overhead based on machine hours, Labour hours etc.

2. Activity Based Costing

⇒ Absorb overhead based on cost driver.

Meaning:-

Activity:- event / action that incur cost

Cost-driver:- factor causing change in cost of activity

Cost-object:- product / service / job etc. whose cost is ascertained.

Cost-pool:- group of various individual cost items.

Level of Activities

- ① Unit Level
- ② Batch Level
- ③ Production sustainable level
- ④ Facility Level

Chapter:- Cost-sheet

Particulars	Amount	Amount
opening stock of raw material	xx	
+ Direct material purchased (chapter-2)	xx	
(-) closing stock of raw material	<u>(xx)</u>	
Raw material consumed		xx
+ Direct labour		xx
(+) Direct Expense		xx
Prime cost		<u>xx</u>
+ factory / work / production Overhead		xx
Gross factory cost		<u>xx</u>
+ opening stock of WIP		xx
- closing stock of WIP		<u>(xx)</u>
factory / work cost		xx
+ office / administrative overhead (related to production)		xx
+ R&D cost		xx
+ Quality Control cost		xx
+ primary packing		xx
(-) sv of scrap / by-product / miscellaneous income / Recoveries		<u>(xx)</u>
cost of production (CP)		xx
+ opening stock of finished goods		xx
(-) closing stock of finished goods		<u>(xx)</u>
Cost of good sold (COGS)		xx
+ office / administrative Overhead (General)		xx
+ selling & Distribution Overhead		xx
+ secondary packing		xx
Cost of sale (COS)		<u>xx</u>

+ profit		xx
	Sale	<u>xx</u>

Note:- Selling overhead is incurred on sales qty where as production overhead is incurred on actual unit produced.

Note:- Details of expenditure

1. Direct Labour cost

- * Includes anything which is paid to Direct Labour
- wages / salary
- All allowances
- Perquisites
- Overtimes
- Contribution to EPF / PF / welfare fund etc.

2. Direct Expense

- * Expense directly related to each unit production
- Royalty
- Hire charges of machine
- Specific software, drawing & design cost
- technical fee / know how cost
- utilities cost: power, fuel, steam
- Amortized cost of moulds, patterns, patent etc.

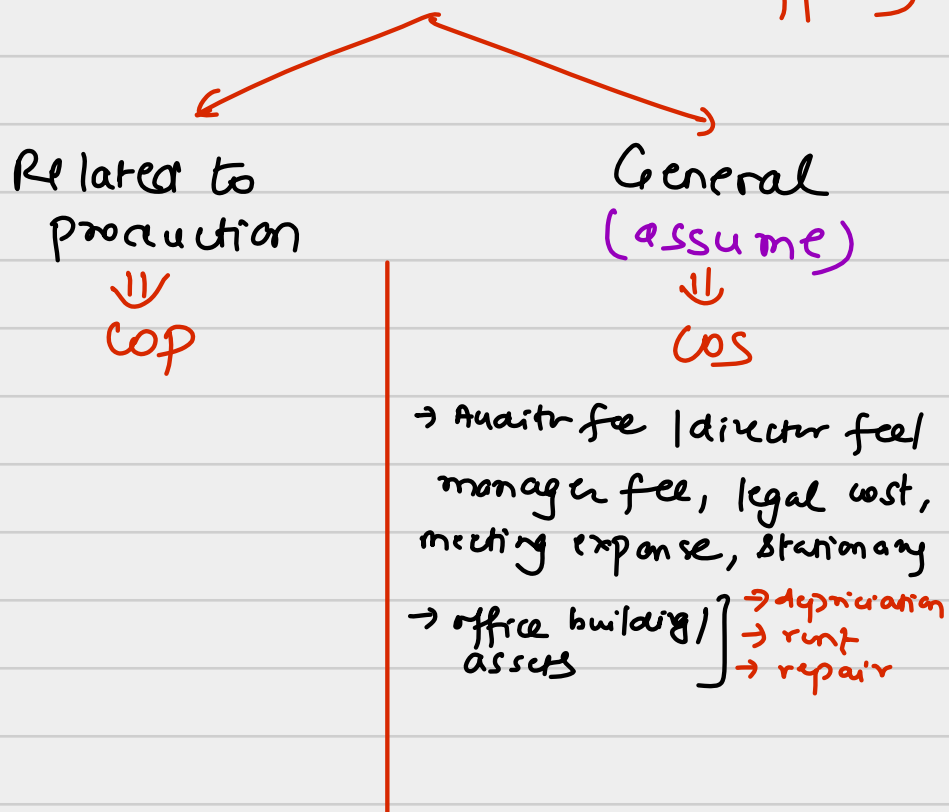
3. factory overhead

(Indirect cost incurred at factory)

- factory building / factory Assets / PLM
 - Depreciation
 - rent
 - Insurance
 - Repair & maintenance
- RM / WIP → Insurance
- Consumable / spares
- foreman Salary, Supervisor Salary, etc.
- Amortization of jig, tool etc.

4. Office / Administrative overhead

(Indirect cost incurred at office)



5. selling & Distribution Overhead

(overhead incurred at sales department & distribution department)

1. Building / vehicle / Assets
 - Depreciation
 - Rent
 - Insurance
2. personnel
 - Salary
 - Commission
3. Advertisement, website, market research etc.

Note:- Question may ask to prepare production cost AC

→ It is just double-entry accounting presentation of cost-sheet.

→ useful for tender / Quotation.

Some other Clarification:-

1. Abnormal cost:- It shall not be included in cost of production.
eg. lock-down, strike, machine break-down etc.
2. Penalty / demurrage / damage / Fine:- It shall not form part of cost of production.
3. Grant / subsidy / Incentive:- It shall be reduced which determining cost of goods or services.
4. Interest / financing cost:-
 - Not a part of cost of production
 - It is included in cost of sale.

chapter:- Cost Accounting System

Integrated/ Integral

- * Single set of book of account.
- * Single figure of profit. so, no reconciliation is required.
- * No concept of notional expense
- * Less time / money required.
- * It includes:-
 - (a) Revenue:- Interest, rent, dividend
 - (b) Expense:- Tax, interest, Bad, debt etc.

Non-integrated/ integral

- * Separate books of account is maintained.
- * Two figure of profit. so, reconciliation is required.
- * It deals with notional expense
- * Time consuming & costly
- * It excludes such income & expense.

Books of Account

Cost Accounting

1. It records all item of cost & revenue of product / service / job.
2. Purpose:- cost control & cost reduction.
3. Inventory valuation:- cost
4. Concept of opportunity cost, notional expenditure etc.
5. forecasting is feasible through budgeting.

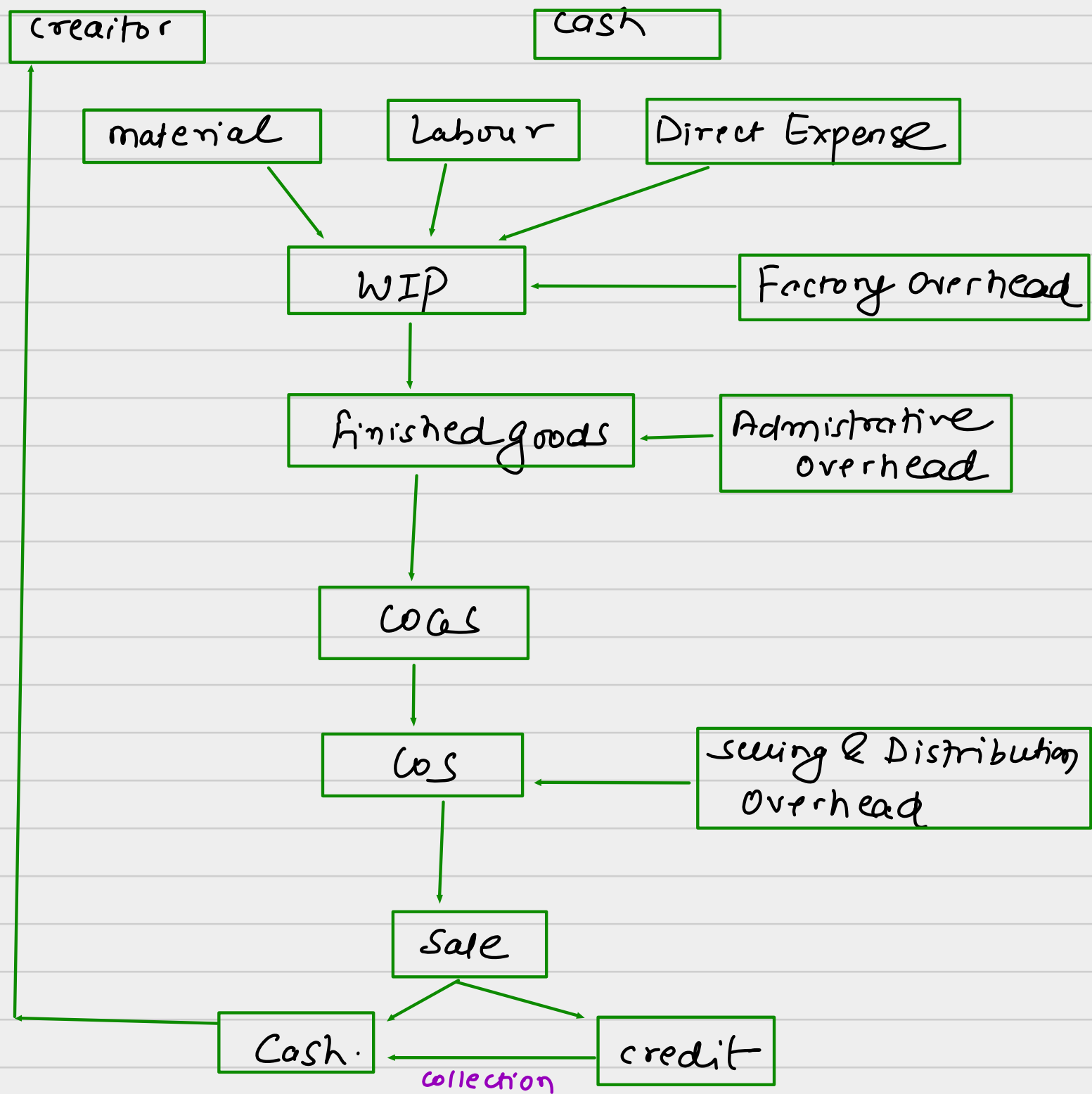
Financial Accounting

It records all historical financial transaction.

Purpose:- Financial Reporting
Inventory valuation:- cost or NRV } lower.
No such concepts.

Forecasting is not feasible.

Flow of transaction



1. Journal Entries

Particulars	Integrated	Non- integrated
1. <u>MATERIAL</u> Purchase (DM + IDM)	Store ledger Control Dr. (SLC) To, Cash Creator	Store ledger Control Dr. To, GLC A/c
Specific job	WIP Control Dr. To, Cash / creditor A/c	WIP control Dr. To, GLC
Return to vendor (DM + IDM)	Creator A/c Dr. To, SLC A/c	GLC A/c Dr. To, SLC A/c

<u>Issue to Production</u> - Direct material - Return Indirect material (production / Repair) <u>shortage</u> - Normal - Abnormal Transfer from (Job 1 - Job 2) Payment to creditor	WIP control Dr. To, SLC A/c SLC A/c Dr. To, WIP control A/c factory Overhead control Dr. (Foc) To, SLC factory Overhead control Dr. To, SLC P/L A/c Dr. To, SLC A/c - No entry - OR Job 2 Dr. To, Job 1 A/c creditor A/c Dr. To, cash	WIP control Dr. To, SLC SLC A/c Dr. To, WIP control A/c factory Overhead control Dr. To, SLC factory Overhead control Dr. To, SLC losing P/L Dr. To, SLC A/c - No entry - OR Job 2 Dr. To, Job 1 A/c - No entry Required
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<u>2. LABOUR</u> wages Incurred (DL + IDL) Direct Labour (Applied) Indirect Labour (Allocated / Applied) <u>Direct Expense</u>	wages control Dr. To, cash / payable WIP control A/c To, wages control A/c factory Overhead control A/c (Foc) A/c A/c SOHC A/c To, wages control A/c WIP control A/c Dr. To, cash / creditor A/c	wages control Dr. To, GLC WIP control A/c To, wages control A/c factory Overhead control A/c (Foc) A/c A/c SOHC A/c To, wages control A/c WIP control A/c To, GLC
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4. Overhead

* Overhead
Incurred

FOHC A/C
AOHC A/C
SOHC A/C

To, cash / payable

FOHC A/C
AOHC A/C
SOHC A/C

To, GLC

overhead
(applied/absorbed)

WIP Control Dr.
To, FOHC A/C

WIP Control Dr.
To, FOHC A/C

Finished goods control A/C
To, AOHC A/C

Finished goods control A/C
To, AOHC A/C

Cos control A/C Dr.
To, SOHC A/C

Cos control A/C Dr.
To, SOHC A/C

under/ over
Recovery

Under Recovery

P/L A/C Dr.
To, FOHC A/C / AOHC A/C / SOHC A/C

Costing P/L Dr.
To, FOHC A/C / AOHC A/C / SOHC A/C

Over-Recovery

FOHC A/C / AOHC A/C / SOHC A/C Dr.
To, P/L A/C

FOHC A/C / AOHC A/C / SOHC A/C Dr.
To, Costing P/L

Finished goods
production

Finished goods control Dr.
To, WIP control A/C

Finished goods control Dr.
To, WIP control A/C

Goods sold
(sales → Debtor)
(FG → Cos)

Cos Dr.
To, finished goods A/C

— DO —

Cash / Debtor Dr.
To, Sales A/C

GLC A/C Dr.
To, Costing P/L

Sales return

Sales return A/C Dr.
To, Debtor A/C

Costing P/L Dr.
To, GLC A/C

Finished goods A/C Dr.
To, Cos A/C

— DO —

Cos → P/L

P/L A/C Dr.
To, Cos control A/C

Costing P/L Dr.
To, Cos control A/C

Net profit-	P/L Dr. To, Capital	Costing P/L Dr. To, GLC A/C
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2. Ledger (Non-Integrated)

SLC A/C		
To, balance b/d	xx	By, WIP control (Issue) xx
To, GLC (Purchase)	xx	By, FOH A/C (Indirect/repair/ Normal loss) xx
To, WIP control	xx	By, Costing P/L (Abnormal loss) xx
		By, GLC A/C (return) xx
		By, bal. c/d xx
	<u>xx</u>	<u>xx</u>

Wages Control A/C		
To, GLC A/C (Incurred) xx		By, WIP control (Direct labour) xx
		By, FOH control (Indirect labour) xx
	<u>xx</u>	<u>xx</u>

FOH A/C		
To, GLC A/C (Incurred) xx		By, WIP control A/C xx
To, SLC A/C (Indirect) xx		By, Costing P/L (under-recovery) xy
To, wages control A/C (Indirect labour) xx		
To, Costing P/L (over-recovery) xx		
	<u>xx</u>	<u>xx</u>

WIP Control A/c

To, bal. b/d	xx	By, Finished goods A/c	xx
To, SL	xx		
To, wages control	xx		
To, FOH	xx		
To, Direct expense	xx	By, bal. c/d	xx
	<u>xx</u>		<u>xx</u>

AOHC A/c

To, GLC A/c	xx	By, Finished good A/c	xx
To, Costing P/L (over-recovery)	xx	By, costing P/L (under-recovery)	xx
	<u>xx</u>		<u>xx</u>

Finished goods A/c

To, bal. b/d	xx	By, Cos A/c (sale)	xx
To, WIP Control A/c	xx		
To, AOHC A/c	xx		
To, COS A/c (sales return)	xx	By, bal. l/d	xx
	<u>xx</u>		<u>xx</u>

SOHC A/c

To, GLC A/c	xx	By, COS A/c	xx
To, Costing P/L	xx	By, Costing P/L	xx
	<u>xx</u>		<u>xx</u>

COS A/c

To, Finished goods A/c	xx	By, Costing P/L	xx
To, SOHC A/c	xx	By, Finished good Control A/c	xx
	<u>xx</u>		<u>xx</u>

Costing P/L			
To, Loss A/c	xx	By, G/LC (sales)	xx
To, G/LC A/c (return)	xx	By, Costing P/L	xx
To, Costing P/L	xx	(over-recovery)	
To, S/LC (Abnormal loss)	xx		
To, G/LC (Net profit)	xx		
	<u>xx</u>		<u>xx</u>

G/LC A/c			
To, S/LC (return)	xx	By, bal. b/d	xx
To, Costing P/L (sales)	xx	By, S/LC (Purchase)	xx
		By, wages control (Incurred)	xx
		By, Overhead control	xx
		(FOH/AOH/C/SOH)	
		By, Costing P/L (return)	xx
To, bal. c/d	xx	By, Costing P/L (profit)	xx
	<u>xx</u>		<u>xx</u>

Trial balance

particular	Dr.	Cr.
S/LC	xx	-
WIP	xx	-
Finished goods	xx	-
G/LC	-	xx
	<u>xx</u>	<u>xx</u>

3. Ledger under Integrated System.

1. Replace costing P/L with P/L Accounting (Abnormal loss, under-over recovery / sales / loss)
2. Replace G/LC with respective ledger (Debtor) creditor / cash / outstanding / prepaid)
3. Additional Ledger:-
 - ① Fixed Assets
 - ② Capital
 - ③ Sales / returns
 - ④ Debtor / creditor
 - ⑤ share Capital etc.

4. Reconciliation between profit under Costing Accounting & Financial Accounting

Followings are reasons for difference in profit in Cost Accounting & Financial Accounting.

1. Items in Financial Account only:-

a. Financial Expense

- * Interest
- * Discount on share/debenture
- * Goodwill written-off
- * Preliminary expense
- * PFI, Donation, subscriptions
- * Additional provision for depreciation, Bad debt etc.

b. Financial Income

- * Interest / Rent / Dividend
- * Transfer fee
- * Profit on sale of Investment / FA

c. Any Appropriation.

2. Items in Cost Accounting only (Notional Expense)

- Notional rent, salary, interest on capital, Depreciation on assets with Book value Nil.

3. Basis of valuation (RM / WTP / FG)

→ Cost Accounting:- at cost

→ Financial Accounting:- Cost or NRV, whichever is lower.

4. Material Pricing

① FIFO ② wgt. Average ③ LIFO

5. Under/Over Recovery of overhead

Note:-

Step 1:- Calculate Profit as per Financial Accounting

Step 2:- " " " " Cost "

Step 3:- Prepare Reconciliation Statement.

Chapter:- Unit & Batch Costing

1. Unit Costing:- method of costing used to determine per unit cost of product.

$$\text{Cost p.u} = \frac{\text{Total cost of production}}{\text{Total unit produced.}}$$

Note:- ① The concept is same as when discussed in cost-sheet chapter.

② If semi-variable cost is given, identify variable cost & fixed cost portion.

$$\text{variable cost p.u} = \frac{\text{change in Total cost}}{\text{change in total unit}}$$

$$\text{Fixed cost} = \text{Total cost} - \text{Variable cost (At any level)}$$

2. Batch Costing:- method of costing used where product are produced in batch.

cost per batch

Direct material	xx
Direct labour	xx
Direct Expense	xx
Prime cost	<u>xx</u>
+ Overhead	<u>xx</u>
Work Cost	xx

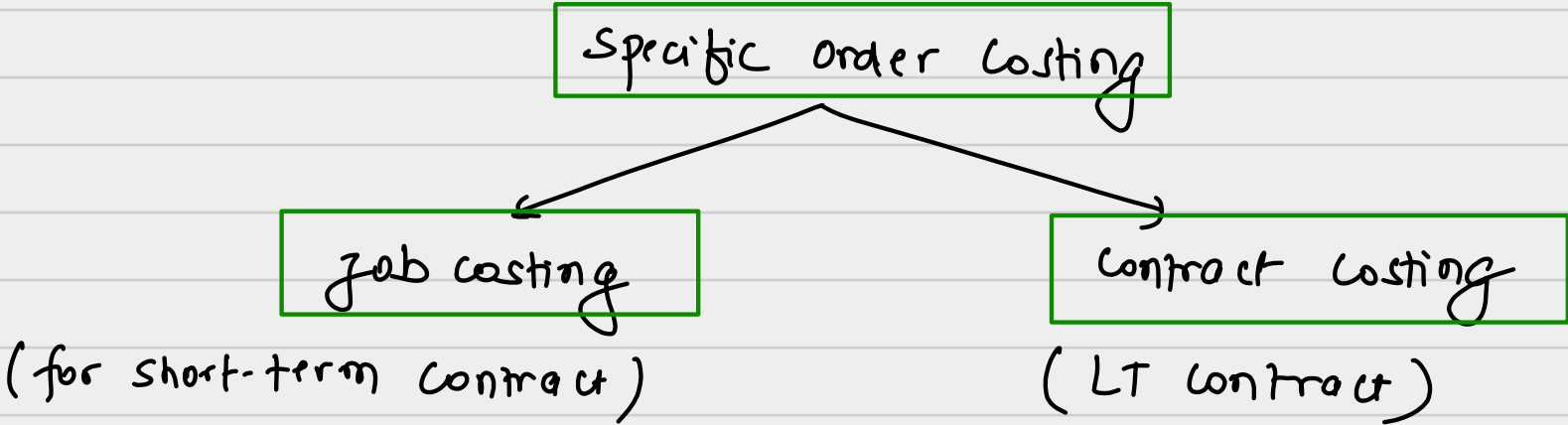
$$EBQ = \sqrt{\frac{2AS}{C}}$$

Total cost:-

set-up cost (N x S)	xx
Carrying cost $[\frac{1}{2} \times EBQ \times C]$	xx
	<u><u>xx</u></u>

A = Annual demand
 S = set-up cost per batch
 C = Carrying cost per rupee of production (i.e. of COP)
 - Interest, obsolescence etc.

Chapter:- Job costing



<u>Job Costing</u>	<u>Batch Costing</u>
* It is used where unit produced as per customer specification * Cost/Job ascertained * Job-sheet prepared * E.g. printing, workshop, advertisement	* used where unit produced in Batch * cost/batch ascertained. * EQ is calculated. * medicine, electronic items, radio etc.

Job-sheet

Customer Name:-

Job No:-

Date :-

Particulars	₹
Direct material	xx
Direct Labour	xx
Direct Expense	<u>xx</u>
Prime cost	xx
+ factory overhead	<u>xx</u>
Factory cost	xx
+ Administrative overhead	<u>xx</u>
cop	xx
+ Selling & Distribution overhead	xx
cos	<u>xx</u>
+ profit	<u>xx</u>
Sales	xx