



# CA Final - SCM & PE (Costing) -New Syllabus One Day Revision Notes

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# One Day Revísíon Notes - Learníng Curve



#### Concept No. 1:- Basis of LC

- "Practice makes a man perfect" :- When You keep on doing a work again and again then time to be consumed in doing that work keeps on decreasing.
- 2. LC says same thing "Labour hour per unit reduces as production in units increases".
- 3. Above rule shall apply only same work is repeated continuously.
- 4. *LC* Rule is applicable to labour hours, labour cost and cost which are dependent on labour hours (Variable Overheads).
- 5. *LC* Rule does not apply to material cost and Fixed Cost.

## Concept No. 2:- Why LC Used?

- LC rule helps in calculating labour hours to be consumed thereby labour cost to be incurred and finally helping in calculating minimum price (Total Cost to be incurred) to be quoted.
- 2. Total cost for an order means sum of material cost, labour cost and overhead cost.

#### Concept No. 3:- What is LC Rule ?

**1.** When total production becomes twice of previous production level then average time to be consumed per unit under next production

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level shall be 90% of average time consumed per unit under previous production level.

- 2. 70% or 80% can also be used in place of 90%. This % will always be given in question.
- **3.** LC Rule shall always provide average time to be consumed per unit on each production level. This average time per unit shall be multiplied by production units of respective production level to calculate total time to be consumed.
- **4.** Incremental time is difference between total time under current production level and total time under previous production level.
- **5.** We can calculate average time to be consumed per unit with help of LC rule <u>provided</u> current production level is just double of previous production level.

#### Concept No.4:- What is Statement of LC?

- 1. *St. of LC shall be prepared in each question.*
- 2. Format of St. of LC is as under

#### Statement of Learning Curve

Cumulatíve	Average tíme per	Total Time (TT)	Incremental
Production Units	unít (AT)		Tíme (IT)
(CU)			
0	0	0	0
1	100	100	100
2	90	180	80

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4 81 324 144				
8	72.90	583.20	259.20	

Assume 90% Learning Curve

## Concept No. 5:- Will LC rule change in case of lot wise production?

- **1.** *Production happens in 2 ways i.e. first unit-wise & second lot-wise*
- 2. Lot means multiple units are produced simultaneously.
- 3. There is no change in *LC* rule whether it is unit-wise or lot-wise.

#### Statement of Learning Curve (Lot - Wise)

Cumulative Lots	Average tíme per	Total Time (TT)	Incremental
(CL)	unít (AT)		Tíme (IT)
0	0	0	0
1 Lot (10 uníts)	100	100	100
2 Lot (20 units)	90	180	80
4 Lot (40 units)	81	324	144
8 Lot (80 uníts)	72.90	583.20	259.20

Assume 90% Learning Curve and 10 units are produced in 1 Lot.

#### Concept No. 6:- Will LC rule change in case of absorption costing to be used?

1. In costing, decision making is done either with marginal costing or absorption costing.

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- Marginal costing is applied while calculating minimum price for an offer. Minimum price hereby means only relevant cost (ignoring unavoidable fixed cost)
- 3. Absorption costing is applied while calculating total cost per unit for a product of regular production. Total cost hereby means all variable cost and all fixed cost (whether avoidable or unavoidable).
- 4. There is No change in LC Rule whichever costing technique is applied.

# <u>Concept No. 7:- Will LC Rule be applied to calculate average time per unit</u> <u>when current production is not double o previous production</u>

- 1. No, LC Rule cannot be applied.
- 2. In such case, following equation shall be used to calculate average time per unit

 $Y = ax^b$ 

Where y = average time per unit / Lot (corresponding to x)

a = Total Time taken for first unit / Lot

*x* = Cumulative production units/lots for which average time to be calculated

 $b = \mathcal{L}C Index$ 

3.LC Index for 90% shall be  $\frac{\text{LOG 0.9}}{\text{LOG 2}}$  i.e. - 0.1521

4. LC Index for 80% shall be  $\frac{\text{LOG 0.8}}{\text{LOG 2}}$  i.e. - 0.3219

5.LC Index for 70% shall be  $\frac{\text{LOG 0.7}}{\text{LOG 2}}$  i.e.

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- 6. This LC index are normally given in question.
- 7. We will learn this formula (Nose shape --- Naakkaaakar)

#### Concept No. 8:- How to calculate LOG value?

- 1. Kuch to LOG Kahenge, LOGO kakaam he kehna, Chodobekarki baton me, kahi beet najayeraina (Song)
- 2. LOG a<sup>b</sup> = b LOGa (Naak par makkhí he ---- Uttha ke patak)
- 3.LOG ab = LOG a + LOG b (<u>**MUA**</u> fir aa gaya multiply then Add)
- 4. LOG a/b = LOG a LOG b (<u>DIM</u>py I love you Divide then Minus)
  i.e. (Divide and Rule)

*Concept No. 9:- Value of LOG?* (Boy friendbannekidasta)

### 1. Calculate value Log 12345.6789

<u>Step No. 1</u>:- BinduKepehlekeboy friendgino- First calculate no. of digits before decimal (Bindukepehlekitneboy friendgino) i.e. 5

<u>Step No. 2</u>:- Ek Boyfriend kokamkarokyuki tum uska bf banna he:-Less 1 (L for less & L for LOG) i.e. 5 - 1 = 4

<u>Step No. 3</u>Crime Master Go-Go(Mere naam he crime master go-go, aayahu, kuch to lekarjaunga):- Now see value of LOG (12 ka 3) i.e. 0899 then see (12 ka 4) i.e. 14. Now add them i.e. 0913

Step No. 4 Abbinduko step 2 aur step 3 ke beech me rakhdo i.e.4.0913

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LadkaChaa Gayaaur result aagaya (Jhakaas):- Value of LOG

12345.5678 = 4.0913

- 2. Calculate value of LOG 10 10 means 10.00
  - *First calculate no. of digits before decimal (Bindukepehlekitneboy friend he GIN) i.e. 2*
  - $Less \ 1 \ (L \ for \ less \ \& \ L \ for \ LOG) \ i.e. \ 2 \ -1 = 1$
  - Now see value of LOG (10 ka 0) i.e. o then see (10 ka 0) i.e. o. Now add them i.e. o(Mere naam he crime master go-go, aayahu, kuch to lekarjaunga)
  - *Value of LOG 10 = 1.00*
- 3. Calculate value of LOG 2 2 means 2.00
  - *First calculate no. of digits before decimal (Bindukepehlekitneboy friend he GIN) i.e. 1*
  - $\mathcal{L}ess \ 1 \ (\mathcal{L} for \ less \ \& \ \mathcal{L} for \ \mathcal{L}OG) \ i.e. \ 1 \ -1 = 0$
  - Now see value of LOG (2 ka 0) (we will see 20 ka 0 since 2 is not there)
     i.e. 3010 then see (20 ka 0) i.e. 0. Now add them i.e. 0 (Mere naam he crime master go-go, aayahu, kuch to lekarjaunga)
  - Value of LOG 2 = 0.3010
- 4. Calculate value of LOG 7 7 means 7.00
  - *First calculate no. of digits before decimal (Bindukepehlekitneboy friend he GIN) i.e. o*
  - $\mathcal{L}ess \ 1 \ (\mathcal{L} for \ less \ \& \ \mathcal{L} for \ \mathcal{L}OG) \ i.e. \ 1 \ -1 = 0$

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- Now see value of LOG (7 ka 0) (we will see 70 ka 0 since 7 is not there)
   i.e. 8451 then see (70 ka 0) i.e. 0. Now add them i.e. 0 (Mere naam he
   crime master go-go, aayahu, kuch to lekarjaunga)
- Value of LOG 7 = 0.8451

#### 5. Calculate value of LOG 88 means 8.00

- *First calculate no. of digits before decimal (Bindukepehlekitneboy friend he GIN) i.e. o*
- $\mathcal{L}ess \ 1 \ (\mathcal{L} for \ less \ \& \ \mathcal{L} for \ \mathcal{L}OG) \ i.e. \ 1 \ -1 = 0$
- Now see value of LOG (8 ka 0) (we will see 80 ka 0 since 8 is not there)
   i.e. 9031 then see (80 ka 0) i.e. 0. Now add them i.e. 0 (Mere naam he crime master go-go, aayahu, kuch to lekarjaunga)
- Value of LOG 8 = 0.9031
- 6. Calculate value of LOG 9 9 means 9.00
  - *First calculate no. of digits before decimal (Bindukepehlekitneboy friend he GIN) i.e. o*
  - Less 1 ( $\mathcal{L}$  for less &  $\mathcal{L}$  for  $\mathcal{L}OG$ ) i.e. 1 -1 = 0
  - Now see value of LOG (9 ka 0) (we will see 90 ka 0 since 9 is not there)
     i.e. 9542 then see (90 ka 0) i.e. 0. Now add them i.e. 0 (Mere naam he crime master go-go, aayahu, kuch to lekarjaunga)
  - *Value of LOG 9 = 0.9542*

#### Concept No. 10:- Value of Learning index at 70%, 80% and 90%?

- $\mathcal{LC}$  index at 70% means  $\frac{\log 0.7}{\log 2}$  i.e.  $\frac{\log 7/10}{\log 2} = \frac{\log 7 \log 10}{\log 2} = \frac{.8451 1}{.3010} = -0.5146$
- $\mathcal{LC}$  index at 80% means  $\frac{\log 0.8}{\log 2}$  i.e.  $\frac{\log 8/10}{\log 2} = \frac{\log 8 \log 10}{\log 2} = \frac{.9031 1}{.3010} = -0.3219$

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- $\mathcal{LC}$  index at 90% means  $\frac{\log 0.9}{\log 2}$  i.e.  $\frac{\log 9/10}{\log 2} = \frac{\log 9 \log 10}{\log 2} = \frac{.9542 1}{.3010} = -0.1521$
- *Normally value of LC index shall be given in question.*

#### **<u>Concept No. 11:-</u>** How to calculate value of Antilog? (ShaadiKarvayenge)

Antílog 1.92742

<u>Step No. 1</u>:- BinduKepehlekeboy friendgino- Bindukepehleka number as it is lelo i.e. 1

<u>Step No. 2</u>:- Ab usme 1 jod do kyukitumharishaadi ho rahi he:-Add 1 (A for Add & A for ANTILOG) i.e. 1+1 = 2

<u>Step No. 3</u>Críme Master Go-Go:- Now see value of ANTILOG (.92 ka 7) i.e. 8453 then see (.92 ka 4) i.e. 8. Now add them i.e. 8461 (Mere naam he críme master go-go, aayahu, kuch to lekarjaunga)

<u>Step No. 4</u> Shaadi ho gayi ab full stop lagado 2 (Value under step 2) kebaad

<u>Step No. 4</u> LadkaChaa Gaya aur result aa gaya (Jhakaas):- Value of ANTILOG 1.92742 = 84.61

#### Concept No. 12:- Special points of LC

• LC Rule shall not be applied when work is already done by experienced workers. LC Rule shall apply when work is done by new workers.

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• *LC* Rule shall not apply on new machines purchased if features of this machines are same as in old machine. But if new machine has new features then *LC* Rule shall apply.

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# <u>PRICING</u>

#### Concept No. 1:- What is transfer price?

- If a company has many departments. Each department produces and sells its own product in market and earn profit. In case any internal department use a component as raw material in manufacturing its product and this component is produced and sold by any of other departments. Then there is a option to purchase that component from outside market or from other internal department.
- In case component is purchased internally then price paid by one department to other department is known as transfer price.

#### Concept No. 2:- Features of transfer price?

- *Transfer price is not sale price.*
- In internal transfer, location of goods and services change within company i.e. it does not reach to customer.
- *Transfer price is revenue for supply department and cost for receiving department.*
- Actual profit does not arise in case of internal transfer until goods using that component is ultimately sold to customer.

<u>Concept No. 3:- Will profit of company increase if transfer price is increased</u> <u>and vice-versa</u>

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• *No, profit of company shall not increase.* 

**Example 1**:- A company has 2 departments i.e. department A & B. Department A produces component C at cost of Rs. 10,000 and sell it to department B at transfer price of Rs. 12,000. Department B use that component and make final product "D" by incurring additional cost of Rs. 8000 and sell it to ultimate customer at Rs. 25,000. Calculate Profit of each department and company?

Solution: Statement of Profit

Partículars	Department A	Department B	Company
Sale /Transfer	12,000	25,000	25000
Príce			
Less:- Own Cost	10,000	8,000	10,000 (Dept. A)
			8,000 (Dept. B)
Less:- Transfer		12,000	
Cost			
Profít	2,000	5,000	7,000

Suppose in above example if transfer price is increased from Rs. 12,000 to 15,000. Will company profit change?

<u>Solution</u>:- Statement of Profit

Partículars	Department A	Department B	Company
Sale /Transfer	15,000	25,000	25000
Príce			
Less:- Own Cost	10,000	8,000	10,000 (Dept. A)
			8,000 (Dept. B)
Less:- Transfer		15,000	

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Cost			
Profít	5,000	2,000	7,000

Conclusion:- Profit of company does not change due to change in transfer price but profit of individual department changes.

#### Concept No. 4:- How to decide transfer price

- Transfer price must be mutually agreed by supply and receiving department.
- But conflicts arise since manager of supply department would love higher transfer price to increase profit of his department thereby claiming salary increment or promotion from top management.
- Manager of receiving department would love lowest transfer price to decrease its total cost of production thereby increasing profit of its department and claiming salary increment or promotion from top management.
- To resolve conflict, Top management sometimes decides transfer price on its own or sometimes consult management accountant to decide transfer price.

<u>Concept No. 5:- Transfer príce – Fíxed by management ítself</u> (Mgt ek grandfather jaisa hota he uski baat koi ma aka lal taal nahi sakta) – Abhi hum jinda he uday

Case 1:- when market price of component is constant:- Transfer price is fixed on the basis of market price.

Case 2:- When market price of component keeps on changing:- Transfer price is fixed as

• Total cost plus fixed % on cost (Called markup) OR



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• Total cost plus fixed % on capital employed (Called return on capital employed)

Total cost = All variable cost + All avoidable fixed cost + All unavoidable fixed cost

Capital employed = *Fixed* assets + working capital

<u>Concept No. 6:- Transfer príce – Fíxed by management accountant</u> (kabhí kabhí bacche grandfather ki baat nahí mante tab tísra ínsaan beech me aata he jísse log shenshah kehte he – Amítabh díalogue)

- To resolve conflict, Management accountant sometimes give a price range of transfer price to choose from or sometimes fixes exact transfer price.
- Lower price is called minimum transfer price which is equal to relevant cost.
- Higher price is called maximum transfer price which is normally equal to market price of component.
- Statement showing relevant cost

Partículars	<u>Amount</u>
Cost to be incurred due to transfer	XXX
+ Benefit / Contribution to be lost due to	XXX
transfer	
-Benefit to be achieved due to transfer	XXX
Mínímum Transfer Príce	XXX

Sunk cost is ignored while calculating relevant cost.

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• Management accountant fix transfer price beneficial to company (not consider benefit of individual department).

# <u>Concept No. 7:- Steps followed by management accountant in deciding</u> <u>transfer price</u>

Step 1:- Makes st. of comparative cost (Comparison of relevant cost of manufacturing (making) component or purchase cost of component).

Step 2:- Decide as to mfd internally or buy from outside market by choosing lower of both cost.

Step 3:- Fix transfer price in such a way that decision taken under step 2 remains valid.

**Example 1**:- A company has 2 departments i.e. department A & B. Department A produces component C at cost of Rs. 1000 per unit and sell it in market at a price of Rs. 1200 per unit. Department B use that component and make final product "D" by incurring additional cost of Rs. 800 per unit and sell it to ultimate customer at Rs. 2500 per unit. Department A has capacity to produce 6000 units but produce upto outside market demand of 2000 units. Department B needs 4000 units of component to make its own product. Kindly suggest

- Whether it is beneficial for company to purchase that component internally or continue buying from market?
- > *Fix transfer price*

*Solution*:- Statement of comparative cost (Make or Buy)

Make		Виу	
Cost to be incurred	1000	Purchase Cost	1200

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+ Benefít to be lost	NIL				
-Benefit to be achieved	NIL				
Relevant Cost	1000	Purchase Cost	120	2	

Decision:- It is beneficial for company to use component internally. (Better to make)

Now management accountant would fix such transfer price which will motivate department B to purchase internally for overall benefit of company.

Hence transfer price may range from Rs. 1000 to Rs. 1200 (Relevant cost to market purchase cost).

**Example 2**:- A company has 2 departments i.e. department A & B. Department A produces component C at cost of Rs. 1000 per unit and sell it in market at a price of Rs. 1200 per unit. Department B use that component and make final product "D" by incurring additional cost of Rs. 800 per unit and sell it to ultimate customer at Rs. 2500 per unit. Department A has capacity to produce 6000 units but produce upto outside market demand of 2000 units. Department B needs 4000 units of component to make its own product. Department A lease out spare capacity for Rs. 12,00,000. Kindly suggest

- Whether it is beneficial for company to purchase that component internally or continue buying from market?
- > *Fix transfer price*

*Solution*:- Statement of comparative cost (Make or Buy)

Make	Виу	
Cost to be incurred 1000 + Benefit to be lost (12,00,000 / 4000 units)300	Purchase Cost 1200	

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-Benefit to be ach	ieved NIL	
Relevant Cost	1300	Purchase Cost
		1200

Decision:- It is beneficial for company to purchase component from market (Better to buy)

Now management accountant would fix such transfer price which will motivate department B to purchase from outside market overall benefit of company.

Hence minimum transfer price shall be set as Rs. 1300 p.u.

## Methods of Transfer Pricing

Poínt	Category 1	Category 2	Category 3
Description	Cost Based Transfer	Market Príce based	Bargaíned or
	Prícíng,	Transfer Pricing	Negotíated
	using Cost or any		Transfer Pricing.
	variant of cost, with		
	or without markup,		
	e.g.		
	(a) Varíable	(a) Market Price of	Combination of
	Manufacturing Cost,	Intermediate Product	Category 1 &
	(b) Full	(as quoted by Outside	Category 2 Methods
	Manufacturing Cost,	Supplier)	of Pricing.
	(c) Total Cost (Actual),	(b) Market Price of	
	(d) Standard Cost.	substitute, if any.	
Meríts	(a) Símple to	(a) Maxímum Príces	(a) Proper
	understand	(b) Demand & Supply	Decísions
	(b) Easy to operate	(c) Opportuníty Cost	(b) Autonomy &

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	(c) Guarantees cost	Recovery	Motivation Value
	recovery	(d) Objectíve	(c) Optimality
Demeríts	(a) Not suítable for	(a) Availability of	(a) Sub-Optímal
	Performance	Market Príces	(b) Conflicts
	Evaluation	(b) Impact of S & D	(c) No scope for
	(b) Ignores	Costs	Performance
	Opportunity Costs	(c) Unjust	Evaluation
	(c) Does not reward	Enríchment	(d) Time and Cost
	cost efficiency.		

Criteria for Setting Transfer Prices

Crítería	Cost Based	Market Príce	Negotíated	
		Based		
1. Achieves Goal	Often, but not	Yes, íf markets	Yes.	
Congruence	always.	are competitive.		
2. Motívates	Yes, íf based on	Yes.	Yes.	
Management	budgeted costs.			
Effort	There is less			
	íncentíve to			
	control costs, íf			
	transfers are			
	based on actual			
	costs.			
3. Useful for	Díffícult, unless	Yes, íf markets	Yes, but Transfer	
evaluating Sub-	Transfer Príce	are competítíve.	Prices are affected by	
Unít	exceeds full costs.		bargaining strengths.	
performance				
4. Preserves	No, sínce ít ís rule-	Yes, íf markets	Yes, because it is based	

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Sub-Unít	based.	are competítíve.	on negotíatíons
Autonomy			between sub-units.
5. Other factors	Useful for	No market may	Bargaining and
	determíníng full	exíst or markets	negotíatíons take tíme,
	cost of products	may be imperfect	and may need to be
	and services.	or in distress.	reviewed repeatedly as
			condítíons change.

Negotiated / Bargained Transfer Pricing

Mínímum Transfer Príce	Maxímum Transfer Príce
(from Transferring Division's	(from Recipient Division's viewpoint)
viewpoint)	
Minimum TP = <b>Relevant Cost,</b>	Maximum TP = Least of the following
computed as under -	ítems -
(a) Variable Costs upto the point of	(a) Market Price, since this represents
ínternal transfer.	the Fair Value in exchange, based on
(b) Fixed Costs, if specific to such	market forces.
transfer.	(b) Effective Purchase Cost, i.e. Market
(c) Opportunity Costs, i.e.	Price + Buying Costs, since the
Contribution foregone by the	Recipient Division would have to
Transferring Division on its	incur
External Sales.	«this cost if the products are procured
Note:	externally.
$\cdot$ Selling and Distribution Costs,	(c) <b>Recipient's Ability to Pay,</b> e.g. if
not incurred for Internal Transfers	Recipient Division sells the Final
are <b>not</b> included.	Product at Rs. 100 after incurring
• Opportunity Costs arises only if -	incremental costs of Rs. 15 in its own
(i) Transferring Division produces	division, it will be prepared to pay a
and <b>sells</b> marketable products, and	maximum of Rs. 85 for the

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(ii) Transferring Division operates	Inte	rmedíate Product.
at full capacíty.	Not	<b>e:</b> If the Intermediate Product as
	such	i is not available for purchase in
	the	market, the price of its substitute
	тау	be considered, in determining the
	abor	ve ítems.

**Negotiation:** Transfer Price may be determined by negotiations between Divisional Managers, subject to the range of minimum to maximum prices. Any price within the range (i.e. Minimum to Maximum) will be acceptable to both Managers.

#### Other Points

Concept	Poínts to Remember
Resolvíng	1. Dual Rate System: Under this system -
TP Conflicts	(a) Revenue for Transferring Dept = Full Cost + Mark up
	(b) Cost for Recipient Dept = Relevant Costs (Variable Cost + Opportunity Cost)
	(c) Company Profits = Total of Divisional Profits <b>Less</b> Interdivisional mark-up
	2. <b>Two Part Transfer Prícíng:</b> Here, Transfer Príce = Marginal Costs + Lumpsum Fíxed Fees.
Other	1. PAT Maxímísatíon by MNC: (a) Income Tax Rates, (b) Import
Concepts	Duty, (c) Inflation, (d) Income Repatriation, (e) Penetrating a new market.
	2. <i>Tfr Prícing - Merits:</i> (a) Goal Congruence, (b) Resource

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Allocation, (c) Wholistic Decisions,

(d) Performance Evaluation, (e) Balance between Autonomy & Company's Goals, (f) Employee Compensation, (g) Taxation and Profit Remittance.

3. **Tfr Prícing - Meríts:** (a) Identity, (b) Short Term Focus, (c) Reduction in Profits, (d) Disharmony,

(e) Duplication, (f) Loss of Control, (g) Transfer Pricing Problems, (h) Ineffective Control.

# <mark>One Day Revísíon Notes - Standard</mark>

# Costing & Variance Analysis

# <mark>8 BOX APPROACH</mark>

Computation of Material			Computation of Labour Variances				
Varíances			(Without Idle Time)				
SP x	SP x	SP x	$\mathcal{AP} x$	SRX	SRX	SR X	$\mathcal{ARX}$
SQA0	RSQ	ÂQ	AQ	SHAO	RSH	$\mathcal{AHP}$	$\mathcal{AHP}$
$\mathcal{M}_1$	$\mathcal{M}_2$	М3	$\mathcal{M}_4$	£1	Ĺ2	Ĺ3	L4
$Cost = \mathcal{M}$	$1$ – $\mathcal{M}_4$			Cost = L1 - L4			
Usage = 2	M1 - M3			Effíciency = L1 - L3			
$Price = \mathcal{N}$	13 - M4			$Rate = L_3$	- <i>L</i> 4		
$Yield = \mathcal{N}$	11 - M2			Yield = L1 - L2			
$\mathcal{M}ix = \mathcal{M}2 - \mathcal{M}3$			$\mathcal{M}ix = \mathcal{L}2 - \mathcal{L}3$				
Computation of Labour Variances			Comput	atíon of $\mathcal V$	aríable Ov	rerheads	
(With Idle Time)							

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		C	A Purus	hottam /	Aggarwal S	ir			
SR X	SR	SR X	SR	$\mathcal{AR}$	Output	In	put	Actua	l
SHA	X	$\mathcal{AH}$	x	X	absorbe	d al	isorbed	Var. C	ЭН
0	RS	$\mathcal{W}$	АН	АН	Var. 03	н Уа	ar. OH		
	${\mathcal H}$		$\mathcal{P}$	$\mathcal{P}$	$\gamma_1$		$\mathcal{V}_2$	- Va	3
£1	£2	L3	L4	£5					
	I			11	$Cost = \mathcal{V}$	0 1 - VO	3		
Cost = Lt	1 - £5				Efficienc	$xy = \mathcal{V}O$	1 - VO 2		
Efficienc	cy = Li	1 - £3			Expense	= VO 2 -	- VO 3		
Idle Tím	$e = \mathcal{L}3$	- L4 (.	Alway.	S					
Adverse	)								
Rate = L	£4 - £5								
Yíeld = 1	C1 - L2								
$\mathcal{M}ix = \mathcal{L}i$	2 - <i>L</i> 3								
Сотри	tatíon	of Fíx	ed Ove	erhead	Com	putation	ı of Fíxe	d Overhe	ead
	$\mathcal{V}_{0}$	aríanc	es			า	'aríance	\$	
(Wíth	out Ca	ılender	r Varía	ince)	(	Wíth Ca	lender V	'aríance)	
Outpu	Іпрі	it Bi	ıdget	Actu	Outpu	Input	Possí	Budget	Actu
t	abso	rb ea	ſ	al	t	absorb	ble	ed	al
absorb	ed	Fi	ixed	Fíxe	absorb	ed	Fíxed	Fixed	Fíxe
ed	Fíxe	d = 0	Н	d ОН	ed	Fíxed	ОН	ОН	d
Fíxed	ОН				Fíxed	ОН			$O\mathcal{H}$
ОН					ОН				
<i>F</i> 1	J=	2	<del>Ĵ</del> З	$\mathcal{F}4$	<i>F</i> 1	F2	F3	F4	<i>F</i> 5
	1	I			$Cost = \mathcal{F}($	01- <i>F</i> 0	5		
$Cost = \mathcal{F}$	01-J	FO 4			Volume	= <i>FO</i> 1 -	<i>FO</i> 4		
Volume	$=\mathcal{F}O$ 1	- FO 3	3		$\mathcal{E}xp. = \mathcal{F}$	04 - FO	5		
$Exp. =\mathcal{F}c$	<i>Exp. =FO</i> 3 - <i>FO</i> 4			Efficiency =FO 1 - FO 2					
Efficienc	Efficiency = FO 1 - FO 2			Capacíty	f = FO 2	- <i>FO</i> 3			



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Capacity =F0 2 - F0 3				Calender =FO 3 - FO 4			
Computation of Sales Variances			Сотри	Computation of Profit Variances			
Budget	Budget	Budget	Actu	Budgete	Budgete	Budgete	Actua
ed	ed	ed	al	d Profít	d Profít	d Profít	l
Sellíng	Sellíng	Sellíng	Sellí	Príce	Príce	Príce	Profít
Príce	Príce	Príce	ng	Р.U. х	Р.И. х	Р.И. х	Príce
P.U. x	Р.И. х	Р.И. х	Príce	Budgete	Revísed	Actual	Р.И. х
Budget	Revíse	Actual	P.U.	d Qty	Std. Qty	Qty	Actua
ed Qty	d Std.	Qty	x				l Qty
	Qty		Actu	<i>P</i> 1	$\mathcal{P}_2$	$\mathcal{P}_{\mathcal{J}}$	$\mathcal{P}_4$
			al				<u> </u>
			Qty	Value = P4	1 – P1		
S1	S2	S3	<i>S</i> 4	Príce = P4	- <i>P</i> 3		
				$Volume = P_3 - P_1$			
Value = S	54 - S1			$\mathcal{M}ix = \mathcal{P}_3$ -	$\mathcal{P}_2$		
$Price = S_4 - S_3$			Quantíty =	- P2 - P1			
Volume =S3 - S1							
$\mathcal{M}ix = S_3 - S_2$							
Quantíty	= <i>S</i> 2 - <i>S</i> 1						

#### <u>Some Additional Points</u>

DMYV = std. cost per unit of output x (Actual output - expected output in actual input)

 $= \frac{\sum M1}{Actual output} \times (Actual output - \frac{Actual input}{budgeted input for 1 unit of output})$ 

- 2. Budgeted Output in budgeted input =  $\frac{\text{total budgeted input}}{\text{budgeted input for 1 unit of ouput}}$
- 3. Budgeted output in actual input =  $\frac{\text{total actual input}}{\text{budgeted input for 1 unit of output}}$

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- 4. Budgeted input for actual output = Actual output x budgeted input for 1 unit of output
- 5. Material Price Variance at time of purchase =  $SP \times AQP AP \times AQP$
- 6.  $SQAO = Actual output x budgeted input for 1 unit of output = Actual output x <math>\frac{\text{Total Budgeted Material Kg}}{\text{Total budgeted Output}}$
- 7.  $SHAO = Actual output x budgeted input for 1 unit of output = Actual output x <math>\frac{\text{Total Budgeted labour hours}}{\text{Total budgeted output}}$
- 8. Output absorbed Overhead
  - a. Formula 1:- =  $Actual O/P \ x Budgeted OH$  per unit
  - b. Formula 2:- = Std Hrs for actual O/P x budgeted OH per Hr

9. Input absorbed Overhead

- a. Formula 1:- = Actual Hrs. x Budgeted OH per Hr
- b. Formula 2:- = Expected O/P in Actual Hrs x Budgeted OH p. unit

10. Possíble OH

- a. Formula 1:- = Possible Output x Budgeted OH p.u
- b. Formula 2:- = Possible Hrs. x Budgeted OH per Hr

11. Budgeted OH

- a. Formula 1:- = Budgeted  $O/P \times Budgeted OH p.u.$
- b. Formula 2:- = Budgeted Hrs. x Budgeted OH per Hr

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12. Actual OH

- a. Formula 1:- = Actual O/P x Actual OH p.u.
- b. Formula 2:- = Actual Hrs. x Actual OH per unit
- 13. Production Volume Variance = (Actual capacity budgeted capacity)x Budgeted FOH per unit

14. OH exp. Varíance =

Budgeted FOH x budgeted production capacity + budgeted VOH x actual production capacity - Actual OH

Concepts	Poínts to Remember						
Classification	Based on	Classification					
of Varíances	1. Type of Cost	(a) Materíal, (b	) Labour, & (d	c) Overheads.			
	2. Causal Factor	Variances of - (	(a) Efficiency,	, (b) Príce, (c)			
		Volume.					
	3. Impact on Prof	<b>์it</b> (a) Favourable,	, & (b) Adver:	se.			
Groups of	Elements of Cost	Varíance of	Varíance of	Varíance of			
Varíances		Efficiency	Príce	Volume			
	Materíals	Usage, Míxture,	Príce	Revísíon			
		Yield					
	Labour	Efficiency, Idle	Rate of Pay				
		Tíme					
	VOH	Efficiency	Expenditure	Revísíon			
	<del>Ј</del> ОН	Efficiency	Expenditure	Capacíty,			
				Calendar			
	Sales	Quantíty,	Príce				
		Míxture					

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Materíal	1. Controllable - Failure to purchas	se anticipated quantities, Not				
Varíance -	availing cash discount, Failure to buy standard quality of					
Reasons	materials, Deficiencies in price ne	gotiation, Inefficient				
	Purchase Planning and consequen	t emergency purchase at				
	hígher costs.					
	2. Non controllable - Change in pr	ices of basic materials,				
	changes in related charges, Failur	e to buy standard quality of				
	materíals.					
Materíal	1. Use of sub-standard/ defective	4. Pílferage				
Usage	materials.	5. Wastage.				
Varíance -	2. Carelessness in use of material.	6. Difference in material				
Reasons	3. Products failing to pass quality					
	inspection & further material 7. Use of non-standard mi					
	required for rectification.					
Labour Rate	2 1. Increase in Wage Rate due to inflation, cost of living index,					
Varíance -	etc.					
Reasons	2. Higher wage awards not anticipated at the time of setting					
	standards.					
	3. Special increments/ allowances	given to workers.				
	4. Use of wrong type of labour.					
	5. Using a composition different fr	rom that of standard.				
	6. Excessíve overtíme & consequent premíum payment.					
Labour Eff.	1. Changes in quality stds or	4. Inefficient organisation.				
Varíance -	material specifications.	5. Defective machinery or				
Reasons	2. Use of sub-standard employees.	equípment.				
	3. Poor working conditions.	6. Incompetent				
		Supervísion				

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A/cíng types	1. Partíal Plan, 2	Síngle Plan & 3. 1	Dual Plan			
Dífferences	Partículars	Partíal Plan	Síngle Plan			
between	1. Computed at	End of the perio	d. At the point of			
Partíal &			transactíon.			
Síngle Plan	2. Nature of	Helps only post-	Current control is			
	Control	control.	facílítated.			
	3. MPV computed	Actual Quantity	y Actual Quantity			
	for	Consumed.	Purchased.			
	4. RM Valuation	Valued at Actu	al Valued at Standard Cost.			
		Cost.				
	5. Varíances	ín WIP Control	ín respectíve Cost			
	adjusted	Account.	Accounts.			
	6. Nature of	Suítable íf símpl	le Preferred if frequent			
	analysis	analysís of	detailed analysis of			
		varíance ís	variance is desired.			
		sufficient.				
	7. Documentation	Detailed	Requires more planning			
		documentation	not & effective			
		necessary.	documentation at each			
			stage.			
Dísposítíon	A. Write-off all va	ríances Costíng	P&L A/c Dr.			
of Adverse	to Costing P&L A/	c at the To Vari	iance A/cs (individually)			
Cost	end of every perío	d -				
Varíances	Assuming all vari	ances				
	are abnormal.					
	B. Assuming all ve	aríances Cost of S	Sales A/c Dr. (for units sold)			
	are normal, Distrivariances proport	ibute all ionately <sup>Finished</sup>	d Goods Control Dr. (for			
	to -	Closing	FG)			
	(1) Uníts Sold,	Sold,				

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	(2) Closing Stock of FG, &	WIP Control A/c Dr. (for Closing			
	(3) Closing Stock of WIP.	WIP)			
		To Variance Accounts (individually)			
	C. Write off Quantity	Costing P& L A/c Dr.(For Quantity			
	Varíances (MUV, LEV	Var.)			
	etc.) to Costing P&L A/c &	Cost of Sales A/c Dr.			
	apportion Price	Finished Goods Ctrl A/c Dr.			
	Varíances (MPV, LRV	WIP Control A/c Dr.			
	etc.) over Cost of Sales,	To Variance Accounts(individually)			
	WIP and FG Stocks.				
Dísposítíon	A. Write-off all Variances	Variance A/cs (individually) Dr.			
of	to Costing P&L A/c at	To Costing P&L A/c			
Favourable	period end- assuming				
Cost	abnormal.				
Varíances	B. Carry forward to next	No Journal Entry is required.			
	accounting period				
	C. Reversal of Cost	Variance Accounts (individually)			
	Absorption Entries -	Dr.			
	Assuming all Variances	To Cost of Sales A/c (for units sold)			
	are normal, and excess	To Fin.Goods Ctrl A/c (for Closing			
	cost absorbed to be	FG)			
	reversed to reflect correct	To WIP Control A/c (for Closing			
	cost, profíts & stock	WIP)			
	values.				
Behavíoural	1. Static Behaviour in Mar	nagers and Employees.			
Concepts of	2. Undue Importance to Materíal Príce, Labour Rate,				
Std Costíng	Efficiency and Capacity U	sage.			
	3. Emphasis on Standard Cost than Allowable Cost.				

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4. Unsuitable for Pricing Decisions.





# <mark>One Day Revísíon Notes - Línear</mark>

# **Programmíng**

Concept	Poínts to Remember				
Meaníng &	Mathematical Model dealing with the use or allocation of				
conditions	certain scarce resources (i.e. Key Factor) in the best possible				
	manner in ord	er to maxími	ze profít or n	ıínímíze cost.	
	Condítions:				
	1. Objective Fu	nctíon (Z) sho	nuld be defined	d by use of a <b>línear</b>	
	function involv	ving the decis	sion variables		
	2. Decísion Va	ríables must l	be <b>non-negatí</b>	ve.	
	3. Constraínts d	denoted by <b>ín</b>	equatíons.		
Application	1. Industrial 4. Financial 7. Operational				
Areas	Applications	Applic	atíons	Scheduling	
	2. Product	5. Adm	inistrative	Applications	
	Distribution	Applic	atíons		
	3. Marketíng	6. Agri	culture		
	Applications	Applic	atíons.		
Dísadvantages	s1. Exístence of	non-linear	3. Fractíona	l Values	
	equations		4. Knowledg	ge of co-efficients of	
	2. Interaction I	between	the equation	IS	
	varíables				
Methods	1. Graphical, 2. Trial & Error Method/Algebraic Approach &				
	3. Simplex Method				
Slack, Surplus	Partículars	Slack	Surplus	Artíficial	

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and Artífícíal	1. Meaníng	Idle or	Excess Amount	No physical or
Varíables		Unused	of resources	economíc
		Resources.	utílízed.	meaníng. It ís
				fictitious.
	2. When Used	'≤' ínequalíty	'≥' ínequalíty	'≥' and '='
				constraínts
	3. Co-effícíent	+ 1	-1	+ 1
	ín the			
	constraínt			
	4. Co-effícíent	0	0	+M for
	ín the Obj.			Minimization
	Function Z			and
				-M for
				Maximization.
	5. Use as	Used as	Cannot be used	Initially used but
	Initial	Startíng	sínce Unít	later elímínated.
	Program	Point (Initial	Matríx	
	Varíable	Table).	condítíon ís not	
			satísfied.	
	6. Presence ín	Helps to	-	Indícates "No
	the Optimal	ínterpret Idle		Feasíble
	Table	& Key		Solution."
		Resources		

Concept Points to Remember

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Prímal vs	For any LPP Model called the <b>Primal</b> Model, there exists a				
Dual	companion model called the <b>Dual Model.</b> The relationship				
	between Primal and Dual LPP are -				
	• The <b>Objective</b> of the Dual will be the <b>opposite</b> of the Primal.				
	• Constraints in Dual LPP will be in tune with the Dual's				
	Objective, e.g. Max Obj with '≤' constraints.				
	• The <b>Dual of the Dual</b> problem is the Primal problem itself.				
	• If Primal has "m" Variables and "n" Constraints, then Dual				
	has "n" Variables and "m" Constraints.				
	$\cdot$ Objective Functions of the Optimal Tables of Primal and				
	Dual will have identical values. <b>[Note: NER</b> of Optimal Table				
	of Primal LPP will be reflected in the <b>Quantity Column</b> of				
	Optimal Table of Dual LPP, and vice-versa.]				
	$\cdot$ If the Primal LPP has no optimal solution because of				
	infeasibility, then the Dual LPP will also have no optimal				
	solution because of unboundedness, and vice-versa.				
	$\cdot$ Feasible Solutions to the Primal and Dual Problem are both				
	optimal, if the complementary slackness conditions hold, i.e				
	$\cdot$ (Value of a Primal Variable) × (Value of the corresponding				
	Dual Surplus Variable) = 0, or				
	$\cdot$ (Value of a Primal Slack Variable) $ imes$ (Value of the				
	corresponding Dual Variable) = 0				
	<b>Note:</b> When this relationship does not exist, then either				
	primal or dual solution or both are non-optimal.				

Steps in Simplex Method

**Step 1: Objective:** Determine the Objective Function (denoted by Z). [either Maximisation or Minimisation]

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**Step 2: Constraints:** List the Constraints applicable for the objective. For Maximisation Objective, atleast one Constraint should bear < sign. For Minimisation Objective, atleast one Constraint should bear > sign.

**Step 3: Conversion of Inequalities into Equalities:** Convert Inequalities into Equalities as below:

Nature of	Introduce	Co-efficient of such Variable in the			
Inequality		Objective Function			
Ś	A <b>Slack</b> Varíable	Zero for all Slack Variables			
2	A Surplus	Zero for all Surplus Variables			
	Varíable and	+M, for all Artificial Variables in case of			
	Artíficial	Mínimisation Objective - M, for all			
	Variable	Artíficial Variables in case of			
		Maximisation Objective			

**Step 4: Revised Objective:** Re-draft the Objective Function by including the variables in this order - (a) Regular Variables as given in the objective, (b) Slack Variables with Zero Co-efficient, (c) Surplus Variables with Zero Co-efficient, and (d) Artificial Variables with + M Co-efficient (depending upon the Objective) **[Note: M = Infinity Cost.]** 

Step 5: Initial Simplex Table: The format of the Simplex Table is as under -

Fíxe	Progra	Profit/	Quantity	Varíables	Replaceme
d	т	Cost		Columns	nt Ratío

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Ratí				${\mathcal A}$	$\mathcal{B}$	S <sub>1</sub>	$S_{2}$	$(\mathcal{RR})$		
0										
	Row 1									
	Row 2,									
	etc.									
			Z (= Objective Value)							
			C (= Computed Value)							
			NER (Net Evaluation Row) = Z - C							

**[Note:** The terms Z and C used in this Book are based on the above meanings. Sometimes, these may also be used as C = Contribution, i.e. from Objective Function, and Z = Computed Value, i.e. Profit X Co-Efficient. So, NER = (C - Z).]

(a) Select Slack Variables as **Initial Program** for Maximisation Objective. In case of Minimisation Objective, Slack and Artificial Variables constitute the Initial Program, forming a Unit Matrix of Co-efficients.

(b) Fill up Profit/ Cost of the Program Variables as per Objective Function.

(c) Fill up Quantity = RHS of Constraints.

(d) Fill up Co-efficients of various variables as per the Constraints, in the respective columns.

(e) Fill up Z Row (i.e. Objective Value) against each Variable, as per Objective Function.

(f) Compute C = Profit × Co-efficient of each Variable.

(g) Compute Net Evaluation Row (NER) = Z - C. [Ensure that **Program Variables** have **Zero NER.]** 

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(h) Select maximum positive NER (Z - C) for Maximisation Objective and circle Key Column. Corresponding Variable is called as the Incoming Variable. In case of Minimisation Objective, select worst negative NER (Z - C).

(i) Compute Replacement Ratio  $(RR) = \frac{\text{Quantity}}{\text{Key Column Element}}$ 

*j)* Select **mínímum non-negatíve** Replacement Ratio (RR) and **Círcle Key Row.** In case RR = 0, it shall be selected as mínímum non-negative. In case of tie in RR, arbitrary selection can be made.

(k) Identify **Pivot Element,** i.e. Junction of Key Row and Key Column.

(1) Compute *Fixed Ratio* (FR) for *Non-Key Rows* =  $\frac{\text{Key Column Element}}{\text{Pivot Element}}$ . For Key Row, FR is Not Applicable.

(m) Determine Replacement Decision: (a) Incoming Variable = Key Column, and (b) Outgoing Variable = Key Row.

Step 6: Second and Subsequent Table:

(a) Fill up Program Variables by Replacement Decision as per earlier Table.

(b) Fill up Profit / Cost of the program variables based on Objective Function.

(c) Update Key Row by the Transformation  $Rule = \frac{Previous Table Key Row Element}{Pivot Element}$ .

(d) Update **Non-Key Rows** by the Transformation Rule = (Previous Table Corresponding Row Element) **Less** (Key Row Element × Fixed Ratio)

(e) Fill up Z Row (i.e. Objective Value) against each Variable, as per Objective Function.

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(f) Compute C = Profit × Co-efficient of each Variable.

(g) Compute Net Evaluation Row (NER) = Z - C. [Ensure that **Program Variables** have **Zero NER.]** 

(h) Repeat the selection and rea-llocation procedure [Step (h) to (m) as given above] till all  $Z - C \leq 0$  for Maximization Objective, and all  $Z - C \geq 0$  for Minimisation Objective.

### Note/ Check Points:

- Program Elements always form a **Unit Matrix**, but need not be adjacent,
- In every Table for all Program Variables, NER = Z C = "o" (Zero)
- Retain fractions in all computations.

### Procedure for Minimisation Objective:

(a) Introducing Surplus Variables, the constraint functions are to be rewritten and converted into equalities.

(b) However, since Surplus Variables when introduced as Initial Program, violate the non-negativity assumption, Artificial Variables "M" of heavy cost (close to infinity) are introduced and the constraints and objective functions are re-written.

(c) Initial Program is commenced using Artificial Variables only (since it satisfies the unit matrix condition).

(d) An Artificial Variable once eliminated (i.e. selected as Key Row) will be removed, and will not re-enter the Simplex Table in the subsequent iterations.

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(e) If Artificial Variable exists in the "Optimal Table", the solution is not optimal. There is no feasible solution in that case.

#### Special Cases and Treatment

Situation	Treatment
Degeneracy	• It occurs if there is a tie in the <b>minimum non-negative</b>
	Replacement Ratío.
	$\cdot$ In case of Degeneracy, the Outgoing Variable (Key Row)
	should be selected on an arbitrary basis.
	$\cdot$ The Variable not selected as Outgoing, will bear "0"(Zero) in the
	Quantity Column in the next Table. <b>(Note:</b> This zero need not
	contínue tíll the Optímal Table)
Equalíty	$\cdot$ The given Equality Constraint is split into two inequalities in
Constraínts	opposite directions, '≤' and '≥' signs.
	$\cdot$ The regular procedure like introduction of Slack, Surplus and
	Artificial Variables will be adopted thereafter. <b>[Note:</b>
	Alternatively, an Artificial Variable can be introduced in an
	equality constraint.]
Multíple	$\cdot$ For any Optimal Solution, $NER = Z \cdot C = o$ for all Program
Optímal	Variables (i.e. Basic Variables).
Solutíons	$\cdot$ <b>LPP</b> has alternative solution(s) if in the Optimal Table, a <b>Non</b> -
	<b>Program Varíable</b> has NER = 0.
	$\cdot$ The Alternative Solution(s) can be obtained by identifying
	such Non-Program Variable (bearing NER = 0) as the Incoming
	Varíable.(í.e. Key Column)
No Feasíble	$\cdot$ Artificial Variable, once eliminated, should not re-enter
solutíon	subsequent iterations (tables).
	$\cdot$ If Artificial Variable exists in the "Optimal Table", the solution

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	is not optimal. There is <b>no feasible solution</b> in that case.
Unbounded	$\cdot$ Outgoing Variable is selected on the basis of minimum non-
Solutíon	negative Replacement Ratio.
	• If <b>all</b> Replacement Ratios are <b>negative,</b> the Outgoing Variable
	cannot be identified.
	$\cdot$ The <b>LPP</b> is said to have <b>unbounded solution</b> in such cases,
	when all <b>RR</b> are negative.

Interpretation of existence of Slack Variables in the Optimal Table of a maximization LPP

Nature	Nature	Nature	Interpretation / Remarks
of Slack	of NER	of	
		Resource	
Non-	$\mathcal{NER} < O$	Кеу	This means that for every reduction in the RHS
Program	(í.e.	Resource	of that Constraint, the Profit will be reduced by
Varíable	negatíve)		the NER. Thus, the value of NER represents the
			<b>Contríbutíon Loss per unít</b> of RHS of that
			Constraint / Key Resource. <b>[Note:</b> This
			Contribution Loss is also called <b>Shadow Price</b> (or)
			Marginal Value of that Resource.]
Program	$\mathcal{N}\mathcal{E}\mathcal{R} = O$	Idle	This means that the Resource has no
Varíable		Resource	Contribution Loss, and is hence not fully utilized.
			The extent of Slackness / Idleness / Unused
			Resources is equal to the "Quantity Column" of
			the concerned Program Slack Variable.

**Interpretation of Peculiarities in the Graph (Note:** Number of Variables = 2 only)

1. Degeneracy The feasible region may be defined by a single point which

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	satísfíes all conditions.
2. No Feasíble	There is <b>no feasible region</b> which satisfies all the constraints
Solution	given in the LPP.
3. Unbounded	The Feasible Region is <b>not finite.</b> The upper bound (in case
Solution	of Maximisation LPP) or the lower bound (in case of
	Minimisation LPP) is not identifiable.
4. Multíple	The Iso-Profit (or Iso-Cost) Line has the same Slope as that of
Optímal	a Constraint, i.e. the Objective Function and any one of the
Solution(s)	Constraints have the same Slope. <b>[Note: Slope</b> = Ratio of
	Coefficient of the Variables.]

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# One Day Revision Notes - Target Costing

## & Cost Reduction Concepts

Concept	Poínts to Remember		
Steps ín	1. Identify market requirements and product qualities /		
Target	attributes.		
Costíng	2. Set <b>Target Selling Price</b> = customers' willingness to pay.		
	3. Set Target Production and Sa	les Volumes.	
	4. Establish <b>Target Profit Marg</b>	<b>ín</b> for each product.	
	5. Set <b>Target Cost</b> (or Allowable	Cost) per unit, for each	
	product. Target Cost = Target S	elling Price <b>Less</b> Target Profit	
	Margín.		
	6. Determíne <b>Current Cost</b> of pr	roducing the new product.	
	7. Set <b>Cost Reduction Target</b> in order to reduce Current Cost to		
	Target Cost.		
	8. Analyse Cost Reduction Targ	et ínto varíous components	
	and identify cost reduction opp	ortunities using VE & VA (for	
	Dírect Costs), and ABC (for Indírect Costs).		
	9. Achieve Cost Reduction & Target Profit by <b>Effective</b>		
	Implementation of cost reduction strategies and decisions.		
	10. Focus on further possibilities of cost reduction and quality,		
	í.e. Contínuous Improvement.		
Steps ín	1. Customer - Product Design 4. Setting Target Costs		
ímplementíng	Specification	5. Computing Current Costs	
Target	2. Market - Target Selling Price	6. Setting Cost Reduction	
Costíng	and Production Volume	Targets	

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	3. Profitability - Target Profit	7. Identifying Cost Reduction		
	Margin	Opportunities		
Target	1. In Service Sector, the Target Costing Team can observe and			
Costíng ín	analyse the actual provision of	servíces to customers, and		
Servíce	províde suggestíons for cost red	luction, by re-configuring /		
Sector	streamlining the activities perf	formed by employees in the		
	course of rendering the service.			
	2. Target Costing at the "Produc	ction" phase in Service Sector,		
	will - (a) lead to cost & wastage	reduction, (b) improve		
	productivity of employees, and	(c) enhance the quality of		
	services provided to customers.			
Cost	1. Meaning: Cost Reduction is d	efined as achievement of <b>real</b>		
Reductíon	and permanent reduction, in the unit cost of goods			
	manufactured or services rendered, without impairing their			
	<i>suitability</i> for the use intended or diminution in the quality of			
	the product.			
	2. <i>Focus:</i> Reduction in expendit	ure and Increased		
	Productivity.			
	3. Advantages: (a) Individual Firm - Improvement in profits			
	and enhancement in value of shares, (b) <b>Society</b> - Availability			
	of goods and services of proper	quality at reasonable prices,		
	and (c) <b>Country as a whole</b> - Re	duction in cost, Increase of		
	Market Share in Exports and increased Forex Savings, and			
	Increase in Government's Tax Revenue.			
Value	1. Value Engineering: It is the a	pplication of Value Analysis to		
Engíneeríng	new products. Hence, it is more	e associated with Target Costing		
(VE) and	as it seeks cost avoidance or cos	st reduction, before production.		
Value	It is more associated with <b>New Products.</b>			

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Analysís	2. <b>Value Analysis:</b> It is a planned, scientific approach to Cost			
(VA)	Reduction, which reviews the material composition of a			
	product and its production design, so that modifications and			
	improvements can be made which do <b>not</b> reduce the			
	value/functionality/quality of the product to the Customer/			
	User. Generally, it is associated with <b>Existing Products.</b>			
Role of	1. investigates into the economic attributes of value.			
VA/VE	2. reduces cost through change in Product Design, Material			
	Specifications, Sources of Supply, etc. "			
	3. emphasizes on finding new ways of getting equal or better			
	performance from a product at a lesser cost without affecting			
	its quality, function, utility and reliability.			
	4. systematically examines each product or component			
	thereof, to ascertain its utility in the product, its cost, Cost			
	Benefit Ratio and better substitute, etc. The best product is one			
	that will perform satisfactorily at the lowest cost.			





# One Day Revísíon Notes - Lífe Cycle

# <u>Costíng</u>

Partículars	Introduction Growth		Maturíty/Stabílízatío	Declíne
			n	
Phase	I	II	III	IV
Sales	Low.	Ríse at	Ríse at decreasing	Constant <b>&amp;</b>
Volumes		increasing	rates.	then start
		rates.		decreasing.
Príces of	Hígh levels.	Retention of	Prices fall closer to	Gap between
products		hígh level	Cost.	Príce <b>&amp;</b> Cost
		príces		ís reduced.
Sales	Low, due to	Ríse ín Sales	Ríse in Sales Values at	Sales Value
Values	low sales	Values at	decreasing rates.	starts
	quantítíes.	increasing		decreasíng.
		rates.		
<b>%</b> of SOH to	Híghest	Total	Ratío reaches a	Reduced
Sales		Exp.remaín	normal <b>%</b> of sales,	sales
		same, whíle	which becomes	promotional
		ratio of S&D	índustry standard.	efforts.
		ОН to Sales ís		
		reduced.		
Nature of	Innovators,	Early	Míddle Majoríty	Resístors of
Customers	Acceptors of	Adopters		Change,
	new changes			Prefer Old

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				Styles.
Competition	Neglígíble <b>&amp;</b>	Entry of large	Fierce Competition.	Starts
	ínsígnífícant	no. of		dísappearíng
	•	competítors.		•
Profíts	Níl.	Increase at	Normal rate of	Declining
		rapíd pace.	profíts.	profíts.
Major Cost	R&D,	Manufacturín	Manufacturíng Costs,	Plants re-
Items	Desígn,	g Costs,	Dístríbutíon Costs,	used / sold /
	Promotional	Dístríbutíon	Product Support Costs	scrapped /
	Costs,	Costs, Product		related costs
	Capacíty	Support Costs		
	Costs			
Pricing	Penetration	• Cost plus	• Prícíng to match or	Príce
Strategies	Prícing, or	Pricing,	beat competítors	Cutting to
	Skímmíng	• Value based	<ul> <li>Reduced prices to</li> </ul>	sell-off
	Prícing.	Pricing,	attract price-sensitive	existing
		• Demand-	customers	stocks.
		Elastícíty		
		based pricing		
Product	Basíc	Product	• Brand	Phasing out
Strategies	Product	Extensíons	Diversification,	of weak
	only - No	and Add-ons,	• More Models <b>&amp;</b>	products at
	product	Servíce,	Versions,	lower príces.
	refinements	Warranty	• More Product	
	or add-ons.	features, etc.	Features.	
Customer	•	• Customer	Preserve Loyalty of	Preserve
Strategíes	Acquísítíon	Retentíon,	existing customers,	Loyalty of
	of	• Repeat	and encourage switch-	existing

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	Customers,	Purchases,	over from	customers
	•	• Building	Competítors.	for next
	Motivating	Brand Loyalty		product
	Product			version.
	Tríals,			
Advertísing	• Create	• Create	Focus on Brand	Maíntaín
Strategíes	Product	interest in the	Dífferences, Superior	hard core
	Awareness	product in the	Quality & Benefits,	loyalty of
	& Vísíbílíty,	mass market,	etc.	customers
	• Inform	• Create		for next
	Product	Brand identity		product
	Features,			versíon.
	• Inform			
	Dealers /			
	Customers.			
Dístríbutio	<ul> <li>Selectíve</li> </ul>	• Expanding	• Extensíve	Selectíve
n Strategíes	Dístríbutíon	Supply Chain	Distribution,	Dístríbutíon,
	to Focus	Relationships,	$\cdot$ Higher Incentives to	Close down
	Group	• Make	Dealers, to handle	unprofitable
	Customers	product more	competition.	dístríbutíon
	who are	avaílable &		outlets /
	Early	vísíble.		channels.
	Adopters			
Promotion	• Неаvy	Leveraging the	Incentíves for -	Reduce all
Strategies	Sales	products'	$\cdot$ Brand Switching,	Promotional
	Promotion	"perceíved"	$\cdot$ Higher buying from	Expenses,
	$\cdot$ Free Trials	differentiation	loyal customers, etc.	and spend
	to Customers	advantages for		only for

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5				
	• Sale	or securing		reducing
	Retur	n Offermarket		ínventory
		position		levels.

Concept	Poínts to Remember
PLC -	1. Fínite líves, 2. Follow predictable courses, 3. Profit p.u varies
Features	for each product, 4. Dífferent opportunities and threats, 5.
	Functional emphasis in each phase, 6. Extend life of the product.
PLC –	1. Time based analysis, 2. Overall Cost Analysis, 3. Pre-production
Importance	costs analysis, 4. Effective Pricing Decisions, 5. Better Decision
	Making, 6. Long Run Wholistic view, 7. Life Cycle Budgeting, 8.
	Revíew

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# One Day Revísíon Notes - CVP Analysís

## & Decísion-Making

#### FORMULAE

PV Ratío	$\frac{\text{Total Contribution}}{\text{Total Sales Value}} \times 100 = \frac{\text{Contribution per unit}}{\text{Sales Price per unit}} \times 100 = \frac{\text{Change in Contribution}}{\text{Change in Sales}} \times 100$					
	$=\frac{\text{Change in Profit}}{\text{Change in Sales}} \times 100 = 100\% \text{ Less Variable Cost Ratio.}$					
	ín Sales Value (Rs.)	ín Quantíty (uníts)				
BEP	Fixed Costs	Fixed Costs				
	PV Ratio	Contribution per Unit				
MGS	Total Sales Less BEP Sales =	Total Sales Qtty Less BEQ =				
	Profit	Profit				
	PV Ratio	Contribution per Unit				
Indífference	Difference in Fixed Costs	Difference in Fixed Costs				
	Difference in PV Ratio	Difference in Contribution per Unit				
Point	Difference in Fixed Costs	Difference in Fixed Costs				
	Difference in Variable Cost Ratio	= Difference in Variable Cost per Unit				
Shut Down	Avoidable Fixed Costs	Avoidable Fixed Costs				
Shul Down	PV Ratio	Contribution per Unit				
Poínt	i v Ratio					

Related Points:

Cash BEP	$Cash \ \mathcal{BTP} \left( Quantity \right) = \frac{Fixed \ Costs \ (-) \ Depreciation \ and \ Amortisation}{Contribution \ nor \ Unit}$
BEP ín	$\mathcal{BEQ} (under \ \mathcal{ABC}) = \frac{\text{Fixed Costs (+) Set up Cost \times No.of Set ups (+) Engg Cost \times No.of Engg Hours}}{\text{Sale Price (-) Unit Varia ble Cost}}$
АВС	
System	
BEP ín	$\mathcal{BEQ} (under JIT) = \frac{\text{Fixed Costs (including Labour) (+) Engg Cost \times No.of Engg Hours}}{\text{Sale Price (-) Unit Varia ble Cost (excluding Labour)}}$
JIT	
System	

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Concept	Poínts to Remember				
CVP Analysis	• Analysis of three variables, viz. Cost, Volume and Profit.				
	$\cdot$ Aíms at n	neasuring variations of	Profits and Costs with		
	Volume, wh	iích is significant to bus	iness profit planning.		
Varíable Cost	Partículars Varíable Cost Fíxed Cost				
& Fíxed Cost	Meaníng	Cost which changes or	Costs which are assumed to		
		varíes proportíonately	<b>remaín constant,</b> for a		
		based on output /	given period of time,		
		volume / quantíty.	irrespective of level of		
			output during that period.		
	Items	Direct Materials +	Fixed Cost = Fixed		
		Direct Labour + Direct	Production OH +		
		Expenses+Variable	Administrative OH +		
		РОН+Varíable SOH.	Fíxed S&D OH.		
	Examples	Raw Materíals,	Rent, Salary, Insurance,		
		Labour, etc.	etc.		
	Cost per	Variable Cost per unit	Fixed Cost per unit will		
	unít	is assumed to remain	vary inversely with		
		constant at all levels of	changes in the level of		
		output.	output.		
	Poínt of	Incurred only when	Incurred even at zero level		
	íncurrence	production takes place.	of output. Hence, even at		
		Hence, no production	Níl Activity Level, Fixed		
		means no Varíable	Costs will be incurred.		
	Cost	Once incurred,	Fíxed Costs, once incurred,		
	Behavíour	Variable Costs will	will be constant at all		
		íncrease	output levels.		
		l			

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		proportionately based		
		on the level of output /		
		quantíty.		
	Nature	Varíable Costs are	Fixed Costs are treated as	
		considered as product-	períod-related costs.	
		related costs.		
	Inclusion	Varíable Costs are	Fixed Costs are not	
	ín	Product Costs, and	included in Inventory	
	Inventory	hence included in	Valuation, and charged off	
		inventory valuation.	to P&L A/c.	
Concept	Poínts to R	emember	I	
Methods of	Expenses th	nat exhibit characterist	ics of Fixed and Variable	
segregating	Costs, whíc	h can be segregated usir	ıg -	
Semí-	1. Graphical Method (Scatter Graph) or Line of Best Fit			
Varíable	Method,			
Costs	2. Analytical Method or Best Judgement Method,			
	3. Hígh and Low Points Method,			
	4. Comparí.	son by Períod or Level o	f Activity Method, and	
	5. Least Squ	uares Method.		
	Need: (a) Co	ontrol over Expenses, (b	) Budgeting & Estimates,	
	and (c) Dec	ision-Making		
MC Eqn	Sales less V	ariable Cost = Contribut	tion = Fixed Cost + Profit	
Contribution	Sales - Variable Costs = Contribution. It is called so, since it			
	initially co	ntríbutes towards recov	ery of Fixed Costs and	
	thereafter t	towards Profit of the bu	síness.	
Profít	Contríbutic	m - Fixed Cost = Profit.	Hence, Surplus	
	Contributio	m = Profít.		
Loss	Loss = Exce	ss of Fixed Cost over Co	ntribution. Hence, Loss =	

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	Unrecovered Fixed Cos	ts			
PV Ratío	1. Ratio of Contribution to Sales. 2. Basic Indicator of				
	Profitability. 3. Higher	PVR is better.			
Break-Even	1. Meaning: Level of Sal	es where Contribution is sufficient only			
Poínt	to recover Fixed Costs. So, there is no profit or no loss. At BEP,				
	Total Sales = Total Costs	s, Contribution = Fixed Costs, Profit /			
	(Loss) = Zero.				
	2. Sígnífícance:				
	Level of Sales	Impact on Profits			
	Less than BEP Firm incurs Losses. [Contribution <				
	Fixed Cost]				
	Equal to BEPNo Profit & No Loss. [Contribution =				
		Fixed Cost]			
	Greater than BEP	Firm earns Profits. [Contribution >			
		Fixed Cost]			
Assumptions	1. Costs classifiable into Fixed and Variable Costs only.				
of BE	2. Factors <b>remain unchanged</b> - SP per unit, VC per unit, Total				
Analysís	Fixed Costs, Productivity of factors of production, Inventory,				
	Sales Míx (incase of multi-product Co.)				
	3. Revenue and Cost functions are <b>linear</b> over the range of				
	activity under consideration.				
	4. All resources are abu	undantly available for consumption (i.e.			
	There is no Key Factor,	).			
1	1				

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Impact of	1. Optímum Output Le	<b>vel:</b> In case of not	n-línear relationships,			
Non Línear	the Company should op	perate at the Opt	ímum Output Level, í.e.			
Sales and Cost	the output where the <b>profitability is maximum,</b> which is -					
functions	(a) Gap / Distance between Total Sales and Total Cost is the					
	greatest, i.e. Maximum Contribution and Maximum Profit,					
	(b) Total Contribution (and not Contribution p.u.) is the					
	híghest, and	híghest, and				
	(c) Incremental Contri	bution (or Addit	ional Contribution)			
	equals Zero.					
	2. <b>BEP:</b> BEP is identifi	ed as the point a	t which Total Revenue			
	Curve cuts Total Cost (	Curve <b>from below</b>	v and not from above,			
	(í.e. from "Loss" area to	o "Profít" area, ai	nd not otherwise).			
	In case of Step-Fixed C	osts with multip	le points of intersection			
	between Total Sales an	d Total Cost Cur	ves, every poínt at			
	which Total Revenue (	Curve cuts the To	tal Cost Curve <b>from</b>			
	<b>below,</b> will be a BEP. I	fence, there may	be multiple BEPs at			
	dífferent activity levels.					
	3. Effect on Profits:					
	Partículars	At Optímum	Beyond Optímum			
		Level	Level			
	(a) Gap between TR	Maxímum	Narrows down /			
	and TC Curves		reduces.			
	(b) Total Contribution	Maxímum.	Reduces.			
	and Total Profit					
	(c) Incremental Zero. Negative.					
	Contribution					
Margín of	1. Meaning: Difference between Total Sales and the Sales at					
Safety	Break-Even Poínt.					

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	2. Significance:				
	(a) Profit = Contri	(a) Profit = Contribution earned out of MOS.			
	(b) Low MOS means Firm has large Fixed Costs and is <b>more</b>				
	<b>vulnerable</b> to changes in Sales.				
	(c) High MOS means a slight fall in Sales may not affect the				
	business very much.				
Indífference	1. Meaníng: Level	of Sales	at wh	ich Total Costs (and hence	
Poínt	Total Profits) of tw	vo optio	ns are	equal. Decision-maker is	
	indifferent as to o	ptíon ch	iosen, .	since both options lead to same	
	profít.				
	2. Sígnífícance:				
	Level of Sales Profi		Profi	table Optíon to be chosen	
	Below Indifference Point Optic		n with Lower Fixed Cost.		
	At Indifference Point Bo		Both	th options are equally profitable.	
	Above Indífferenc	Above Indifference Point Option with Higher PVR (lower VC,			
Concept	Points to Remember				
Shut Down	1. <i>Meaning:</i> Level of operations (Sales), <i>below</i> which it is not				
Poínt	justifiable to purst	ue opera	itíons ,	/ production. Contribution is	
	insufficient even to recover Avoidable Fixed Costs.				
	2. Sígnífícance:				
	Level of Sales	Decísio	n	Reason	
	Below Shut down	Close D	own	Avoidable Fixed Costs are not	
	Poínt	Operati	ions	fully recovered.	
	At Shut down	Contíni	ıe	Avoidable Fixed Costs are just	
	Poínt	Operati	ions	recovered.	
	Above Shut down	Contíni	ıe	Avoidable Fixed Costs are	
	Poínt	Operati	ions	fully recovered.	
Impact of	Situation	I	Decísio	m	

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Non-	If Relevant Benefits >	Accept the Proposal, unless Non-			
Fínancíal	Relevant Costs	Financial factors & Ethics require			
Factors		otherwise.			
	If Relevant Benefits =	Accept the Proposal, subject to Non-			
	Relevant Costs	Financial factors & Ethics.			
	If Relevant Benefits <	Reject the Proposal, unless Non-			
	Relevant Costs	Financial factors & Ethics require			
		otherwise.			
Concept	Poínts to Remember				
Key Factor	Key Factor / Budget F	actor / Crítícal Factor represents a			
	resource whose availab	ility is less than its requirement.			
	Denotes a Resource Cor	nstraint situation, e.g. RM or DLH or			
	Plant capacity shortag	е.			
	Steps:				
	1. Identífy the Key Factor.				
	2. Compute Total Contribution or Contribution per unit of the				
	product.				
	3. Compute Contributio	n per unit of the Key Factor, i.e.			
	Contribution per Direc	t Labour Hour, Contribution per kg of			
	Raw Material, etc.				
	4. Rank the products be	ased on Contribution per unit of the			
	Key Factor.				
	5. Allocate the Key Res	ources based on Ranks gíven above,			
	and other conditions.				
Key Factor -	1. If Availability < Req	uirement, that Resource is called a Key			
Príncíples	Factor or Key Resource	е.			
	2. If Availability > Req	uirement, that Resource is called as an			
	Idle Resource.				

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3. Key Resource and Idle Resource are mutually exclusive, i.e.
they do not refer to the same resource.
4. Key Resource should not be kept idle, and an Idle Resource
will always have spare capacity.
5. Key Resource has Opportunity Costs, while Idle Resources
have no Opportuníty Costs.
6. A Key Resource, if kept idle, will erode / reduce
Contribution.
7. For identifying Key Resource, Availability = Normal
Resource Availability at Normal Costs. Any additional
resource availability at higher cost (e.g. additional labour
hours due to Overtime Work and Premium) will not be
considered.
8. For identifying Key Resource, Requirement is at 100%
Capacity Levels, i.e. Maximum Output.
9. In case of minimum production condition, minimum
resource requirements should be allocated independent of the
Key Factor Ranking priority. Additional Resource
requirements only should be allocated based on Key Factor
Ranking.
10. In case of Multiple Products and Multiple Key Factors
with difference in ranking priority, Linear Programming
(LPP) Techniques may be applied for Resource Allocation
decision.
11. Application of Key Factor Principles is subject to - (a)
feasíbílity, and (b) Company policy.
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Dívestment	1. <i>Meaning:</i> It is a strategy of selling-off or shedding business
Strategy	operations to divert the resources, so released, for other
	purposes. Selling-off a business segment of Product Division is
	one of the frequent forms of Divestment Strategy. It may also
	include selling-off or giving up the control over a Subsidiary
	whereby the wholly-owned Subsidiaries may be floated as
	independently quoted Companies.
	2. Reasons:
	(a) Opportunity to get more profitable product or segment but
	has <b>resource constraínts.</b>
	(b) In case of purchase of <b>new business,</b> if some of the part of
	the acquired business is not upto the standard norms of
	profitability.
	(c) If any Business Segment / Product / Subsidiary <b>pulls down</b>
	the profit of the whole Firm.
	(d) If managing the organisation is very constrained, it is
	better to dispose off those divisions which involve large
	management skill, but less profitability.
	(e) If the Firm has <b>considerable losses,</b> selling-off or divestment
	policy is one suitable option to <b>"exit</b> " the current situation, and
	to go for <b>Turnaround Strategy.</b>
Concept	Points to Remember
Product Míx	<b>Relevant Costs:</b> (a) Future Costs, and (b) Differential Costs,
Decísíon	Other factors include -
	1. Available Production Capacity and Limiting Factors, if any.
	2 Contribution per unit of the Cimitina Factor
	2. Contribution per unit of the Zimiting Juctor.
	3. Market Demand for the products.



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etting the right goods to the places at the right	
time for the optimal cost.	
2. <b>Basíc Output:</b> % of customers who should get their order in	
ber of days.	
efficient if it maintains a particular level of	
ímum cost.	
<b>ıkíng tools:</b> (a) Línear Programming	
m Model), (b) Inventory Models, and (c)	
odels.	
<b>hannel of Distribution:</b> (a) Type of Product, (b)	
et, (c) Industry Practices, and (d) Effect on	
oods supplied by Supplier.	
certainty of the Supplier meeting the delivery	
elíness.	
of more than one Supplier to reduce the risk	
ying.	
nvolved in receiving the materials versus time	
n production.	
bility, i.e. whether the Supplier will support the	
ng-run also.	
ı of skilled labour, technical know-how &	
nake product / component.	
tions - adverse effect on labour relations if it is	
instead of making.	
ır redundancies, if any.	
ial Machineries to be installed in making the	



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	10. Possible use of released capacity and facility as a result of		
	huvina instead of makina.		
	11. Possibility of expandina capacity or creatina extra		
	canacíty (e a Overtíme Work II Shíft)		
	12 Process of making - whother	confidential or natented or a	
	12. 2 rocess of making - whether	confidential of patentied of a	
	yenerui process.	common out aufathor	
	13. Decinical obsolescence of the	component - whether	
		cy or not.	
	14. Seasonaí aemana of Compon	ents, leading to costs of	
	inventory notaing.		
	15. Price Stability and possibility	y of escalations in the Price of	
	Components purchased.		
	16. Possibility of adverse Foreig	n Exchange Rate Fluctuations	
	in respect of Imported Compone	nts.	
	17. Availability of transport and other infrastructure for		
	procuring the component from outside.		
	18. Behaviour of cost of make and cost of buy in the long run.		
	Note: Of the above (1) to (5) are relating to Suppliers, (6) to (8)		
	are relating to Labour, (9) to (13) are relating to Capacity &		
	the balance are relating to Other Factors.		
Asset	Cost Factors	Non Cost Factors	
Replacement	1. Operating Costs	1. Market standing of the	
Decísíons	2. profitability Return on	product	
	Capital Employed and Interest	2. Nature of the market	
	on Capital	3. Constraints on the resources	
	3. Opportuníty Costs	4. Possíbílíty of any bottleneck	
	4. Effect of disposal of the	5. Possíbílíty of any substitute	
	existing plant	product	

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	5. Additional Capital	6. Líkely effects of any change
	Expendíture	ín Government policy
	6. Effect on tax liability	
Sell or	1. Compute Additional Revenu	e = Sale Value after further
Further	Processing <b>Less</b> Sales Value at	Split off.
Process	2. Compute Additional Costs =	Further Processing Costs + S &
	D OH íf any.	
	3. Compute Additional Profit =	= Additional Revenue Less
	Addítíonal Costs.	
	4. Decide: If Additional Profit	$\geq$ 0, process further. If not, sell
	at split off point.	
Mínímum	1. Concept: In situations where price discrimination is	
Prícíng or	permissible, lower prices can be charged for certain orders.	
Specíal Order	Such lowest price is called Minimum Price.	
Decísíons	2. <i>Computation: Minimum Price = Relevant Cost =</i>	
	Incremental (both Fixed and Variable) Costs of	
	Manufacturing and Distribution + Opportunity Cost, if	
	applicable.	
	3. <b>Use:</b> Minimum Pricing App	roach is useful in case of - (a)
	meeting intense competition, (	b) need to use Surplus
	Production Capacity, (c) clear	ance of old inventories, (d)
	obtaining special orders, and/	or (e) improving Market Share
	of the Product.	
Decísíon	1. Sensítívíty Analysís:	
Makíng	(a) Sensitivity Analysis refers	to analysis of the change in one
under	factor on the other related fac	tors. It focusses on how a result
Uncertaínty	will be changed if the original	estimates of the underlying
	assumptions change.	

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Concept	Poínts to Remember	
	(b) CVP-based Sensitivity analysis will help top Management	
	to cope up with uncertainty and to get answers to questions	
	like - What will be the Total Profit if the Sales Mix is changed	
	to include more of Product L and less of Product M? or What	
	will be the Profit if Fixed Costs increase by 30% and Variable	
	Costs declíne by 5%?, etc.	
	2. Normal Distribution Theory: The Probability of earning a	
	particular amount of profit is computed using the Areas	
	under Standard Normal Curve (Z Value) as under -	
	· Compute $Z = \frac{X-\mu}{\sigma}$ where $X = Required Profit$ , $\mu = Expected$	
	Profit, σ = Standard Deviation.	
	$\cdot$ Determine Area under the Standard Normal Curve from Z	
	Tables for the computed Z.	
	$\cdot$ Ascertain probability of a particular amount of profit using	
	values from Z Tables.	

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1. Materials already available includes - (a) Materials under Firm Purchase Orders, (b) Materials in Transit, where the risk / property in materials is already with the Buyer Company.

2. Generally, Current Replacement Cost = Current Purchase Price = Current Market Price of the Material.

3. If there are alternatives for disposal of rarely used material, e.g. substitution or re-use or scrap, the highest of Opportunity Costs shall be considered relevant.

4. If a regularly used material is restricted in supply, the Total Relevant Cost = Current Purchase Price **Plus** Indirect Opportunity Cost.

Relevance of Labour Cost



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Labour Cost Labour Cost ís		Varíable Cost +	Out of Pocket Costs,
ís Varíable	Committed Cost, hence	Opportuníty Cost	í.e. Wages of <b>new</b>
Cost and	írrelevant.	(Contribution	<b>workers</b> is relevant.
hence		foregone) ís	
relevant.		relevant.	

*Note:* If acceptance of special contract necessitates replacement / transfer of workers, i.e. existing jobs carried out with new workers, and existing workers are transferred to the special contract, the Wages of New Workers is relevant for the special contract.

Nature of Cost	Relevant Cost
Variable	• Irrelevant íf already incurred.
Overheads	$\cdot$ Relevant, only if such costs are to be incurred in future.
Fíxed Overheads	Relevant, only under specific situations described in
	Questíon above.
Depreciation	<i>Irrelevant,</i> as it is an apportionment of Historical Cost.
	However, fall in Asset Disposal Value due to delay in
	disposal, becomes relevant.
Other Department	$\cdot$ Irrelevant if already incurred or apportioned.
Costs	$\cdot$ Relevant if they are to be incurred specifically for any
	contract / work.
Intra-Company	(Incremental Costs upto the point of transfer +
Transfer Príce	Opportunity Costs) are relevant.
Charges for	
servíces	

#### Relevance of Other Costs

Other Points

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Opportunity<br/>Gain = incidental, indirect benefit derived out of<br/>choosing a particular course of action, from among various<br/>options, and comprises - (a) Savings in Costs, or (b) Additional<br/>Indirect benefits derived by accepting / choosing a certain<br/>option.

# One Day Revísíon Notes - Prícíng

# Strategies and Decisions

Concept	Poínts to Remember	
Cost Plus	1. <i>Meaning:</i> Selling Price= Estimated Cost plus a fixed Profit	
Prícíng	Margín.	
	2. <i>Meríts:</i> (a) Guaranteed Contribution, (b) Assured Profit, (c)	
	Reduced risks & uncertainties, (d)Most suitable in long run,	
	(e) Considers market factors, (f) Full Recovery of all costs, (g)	
	Price Stability, (h) Simplicity.	
	3. <b>Demeríts:</b> (a) Ignores demand, (b) Ignores competítion, (c)	
	Arbitrary Cost allocation, (d)Ignores opportunity costs, (e)	
	Price-Volume relationships.	

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ROCE Pricing	1. <b>ROCE Prícíng</b> is used when each division is treated as an		
	Investment Centre.		
	2. <b>Determination:</b> The Firm sl	hould determine an <b>average</b>	
	<b>mark-up on cost,</b> which is nec	essary to produce a desired rate	
	of ROCE. The issues to be cons	ídered are -	
	(a) Basis and Assumptions on computed,	which the Capital Employed is	
	(b) Components to be covered in the ROCE, and		
	(c) Fairness of the ROCE.		
	3. <i>Advantages:</i> Allowing each Firm (and hence the industry		
	as a whole) to earn an adequate ROCE would - (a) attract		
	additional capital, (b) increase the number of factories and		
	production of the commodity, which would ultimately lead to		
	competition and reduction in costs and prices.		
Margínal Cost	1. When goods are of	4. To eliminate Competitors	
Prícíng -	períshable nature.	from the market.	
Sítuatíons	2. When the Fírm has already	5. To obvíate shut-down costs.	
	purchased huge quantities of Raw Materials, and the prices of these Materials is	6. To push up sales of another highly profitable product.	
	falling considerably in the market.	7. To capture / retaín future market.	
	3. To launch or introduce a new product in the market at competitive prices (using	8. To capture / retain foreign market. 9. To ensure sale of old and	

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	Penetration Pricing	defectíve stocks, seconds, etc.	
	Strategy).		
Conversion	Rased on the assumption that	Profit should be related to	
Cost Mathad	Value Added in the form of C	2 roju stoud de redded to	
Cost Metrica	value Aaaea in the form of Conversion Costs since Materials		
	Cost do not contribute to Prof	its.	
	Price = Conversion Cost + Pro	fit Margin on Conversion Cost	
	+ Materíals Cost.		
Std. Cost	Selling Price = Standard Costs	+ Suitable Profit Margin.	
Method			
Efficiency	1. Recogníses improvements ir	n production efficiency due to	
Curve Method	repetitive nature of operations and large batch quantities.		
	2. As efficiency improves, the unit cost of production comes		
	down and this is reflected in <u>p</u>	rrícíng.	
Dífferentíal	Use of Dífferentíal Selling Pri	ice, which is above Marginal	
Selling Price	Cost but below Total Cost, intended to absorb surplus		
	capacity & can be achieved by	y - 1. Dífferent Markets-Export	
	Pricing, 2. Different products		
Goíng Rate	1. Competitive Pricing Method	l wherein a Firm tries to keep	
Prícíng	its price at the average level of	charged by the industry. This	
	Method can .be used in Pure (	Competition and Oligopoly	
	Markets.		
	2. <b>Advantages:</b> (a) Useful whe	re it is difficult to measure	
	costs, (b) Yields fair return to	all Firms in the industry, (c)	
		5	

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	Most conducive for industry's harmony, (d) Signifies the
	prícing practice in homogeneous product markets.
Sealed Bid	Bid constitutes the Firm's Offer Price, based on the
Prícíng	Incremental Costs plus a Reasonable Mark-Up.
	1. Low price quoted in order to win the contract - Firm may lose on profits.
	2. Hígh príces quoted - chances of gaining the contract may be reduced.
	3. Probability Analysis may be used to analyse the impact of various bid prices.
Incremental	1. Involves comparison of the impact of decisions on revenues
Pricing	and cost If a pricing decision results in a greater increase in revenue than in costs, it is favourable.
	2. <b>Analyses</b> - (a) Relevant Cost, (b) Product-Line Relationship, (c) Opportunity Cost, (d) Time factor, (e) CVP, and (f) Risk.
Non-Cost	1. Provide an incentive to the Firm for adopting improved
Factors ín	technology & maximising production,
Prícíng Decísíons	2. Encourage optimum utilisation of resources,
	3. Work towards better balance between demand and supply,
	4. Promote exports and / or other avenues to utilize the
	- Assoid a farmer offerete on the most of the second
	5. Avoia adverse effects on the rest of the economy. <b>Note:</b> These are relevant in - (a) Price Discrimination, (b)

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	Peak Load Pricing, (c) Predatory Pricing.
<u> </u>	
Curvilinear	Optimum Output is the point where the gap between the
CVP Analysis	Total Cost and Total Revenue curves is the <b>maximum.</b> If
	volume is increased beyond this level, Profits are reduced
	since the Incremental Cost is more than the Incremental
	Revenue.
	1. <b>Príce Equatíon</b> for Maximum Profit: <b>P</b> = <b>a</b> - <b>bQ,</b> where <b>P</b> =
	Price, $\boldsymbol{\mathcal{Q}}$ = Quantity demanded,
Príce Equation	a = Price at which demand is zero, $b$ = Slope of the Demand
	$CUTVe = \frac{\text{Change in Price}}{\text{Change in Quantity}}.$
	2. Marginal Revenue Equation: Marginal Revenue (MR) = $P$
	=a-2bQ.
Prícíng ín	1. <b>Features:</b> (a) Large no. of Buyers & Sellers, (b) Homogenous
Pure	product, (c) Free entry or exit, (d) Perfect knowledge of
Competition	Purchasers and Sellers on prices & quantities, (e) Absence of
	Market Segmentation, (f) Absence of Transportation Cost,
Market	and (g) Perfect mobility of Factors of Production.
	2. Príce Determination conditions:
	(a) Firm has no pricing policy of its own as it has to accept
	the prevalent market príce.
	(b) Firm can sell nothing at any higher price.
	(c) Decision is not on price, but on the quantity to sell.

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	(d) Every Firm can continue to produce so long as its
	Marginal Cost < Selling Price.
Prícína ín	1. Features: (a) Sínale Seller of a partícular acod or service.
Monopoly	(b) No Compatition (c) No Close Substitutes and (d) Power to
Snonopory	(b) SNO Competition, (c) SNO Close Substitutes, and (a) Fower to
	influence price.
	2. Príce determination conditions:
	(a) A Monopolist can raise the price of its products without
	frightening away all his customers. Extent of price increase
	depends on the elasticity of demand for the product.
	(b) Optimal Price is determined at the output level at which
	Margínal Revenue = Margínal Cost.
Φιτί σίτι ο ίτι	<b>To struct</b> (s) Our first Oifferentistics (b) Ouristance of
Pricing in	1. <b>Jeatures:</b> (a) Product Differentiation, (b) Existence of
Monopolístíc Competítíon	many Sellers and Buyers, (c) Availability of Close Substitutes
	(símílar but not ídentícal).
	2. Príce Determination conditions: For Optimal Price
	(a) short run: Marginal Revenue = Marginal Cost.
	(b) long run: Average Revenue = Average Cost, & Margínal
	Revenue = Margínal Cost.
Prícíng ín	1. Going Rate Pricing:
Oligopoly	(a) Characteria of four the masses of $-$ four form $-$
Market	(a) Characterisea by the presence of a few large sellers
	occupying a major share of the market.
	(b) Decision of each Seller will necessarily be in tune with the

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	índustry.		
	(c) Firms tend to charge the same price as is being charged		
	by their competitors.		
	(d) One Firm assumes role of Price Leader and the others		
	follow any change in price by the Leader.		
	2. <b>Pricing Strategies:</b> Predatory Pricing, (b) Limit-Pricing, (d		
	Collusion, (d) Cost-Plus Pricing.		
	3. Non-Príce Competítion: Price Competition can lead to		
	destructive price wars. Hence, Oligopolies also indulge in		
	Non-Price Competition, viz		
	(a) Spending more on Advertising, Sponsorship, and Product		
	Placement,		
	(b) Sales Promotion Strategies, e.g. free door delivery, Order		
	Now Pay Later, Buy-l-Take-1 Free,		
	(c) Higher levels of Quality and After Sales Servicing, e.g.		
	Extended Guarantees / Warranty, Free Insurance, etc.		
	(d) Loyalty Schemes, Reward Points, etc. to encourage		
	repeated buying from the same Seller.		
New Products	Procedure for Príce	Types of New Products:	
	Determínatíon:	1. Revolutionary Product	
	1. Market Survey	2. Evolutionary Product	
	2. Price Volume Relationship	3. Me-Too Product.	
	3. Incremental Contribution		

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	Approach		
Prícíng	1. <i>Meaning:</i> Broad plan of action by which an organisation		
Strategíes	intends to reach its goal.		
	2. <b>Types:</b> (a) Market Entry Strategies, (b) Discount Strategies,		
	(c) Price Discrimination Strategies, and (d) Geographic		
	Pricing Strategies.		
Skímmíng	1. <i>Meaning:</i> Policy of charging high prices during the early		
Prícíng	period of a product's existence and in the later years the		
	prices are gradually reduced.		
	2. <b>Reasons:</b> (a) Inelastíc Demand, (b) Sales Boost, (c) Assured		
	Profít, (d) Cost-Revenue Matching.		
Penetration	1. <i>Meaning:</i> Policy of using a low price as the principal		
Pricing	instrument for penetrating mass markets early. This method		
	is used for pricing a new product and to popularise it		
	ínítíally.		
	2. Círcumstances: (a) Elastic demand, (b) Mass Production		
	and, (c) Frighten off competition.		
Dístríbutor's	1. <i>Meaning:</i> Price deductions that systematically make the		
Díscount	Net Price vary according to Buyer's position in the chain of		
	distribution, and given to various Distributors in the trade		
	channel.		
	2. <i>Forms:</i> (a) Different Net Prices for different Distributor		
	Level, (b) Uniform List Price subject to a discount structure,		
	differing for various Distributors, (c) Single discount		

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	combined with differing supplementary discounts.
Príce	1. <b>Meaníng:</b> Charging different prices and it takes various
Discrimination	forms according to whether the basis is customer, product, place or time.
	2. <b>Condítíons:</b> (a) Segmentable Market, (b) No resale, (c) No competitíon.
	3. <b>Forms:</b> Based on - (a) Customers, (b) Product Version, (c) Place, (d) Time.
Tíme	1. <b>Meaníng:</b> Charging different prices on the basis of time is a
Dífferentíals	kind of price discrimination called Time differentials.
	2. Classification: (a) Clock-Time Differentials, (b) Calendar-
	Time Differentials, (c) Geographical Price Differentials, and
	(d) Consumer Category Price Differentials.
Geographíc	1. Point-of-Production Pricing 3. Zone-Delivered Pricing
Prícíng	2. Uniform Delivered Pricing 4. Freight-Absorption Pricing
Sensítívíty	1. <i>Meaning:</i> It involves evaluating the effect of Price on
Analusís	various other factors (Demand, Output, Marketing Costs,
5 1100 95 85	etc.), and vice-versa. Sensitivity Analysis is performed by
	choosing the critical parameters upon which the Company
	has made its initial estimates of Revenues and Profits, and
	systematically changing them to evaluate how the changes
	will affect the Revenues and Profits.
	2. <b>Sígnífícance:</b> (a) To balance between Costs, Competitive

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	Market conditions, etc. and its i	mpact on Príce, (b) To		
	determine what Price is attract	ive enough to generate more		
	Sales, but is also profitable for th	he Fírm, (c) To ídentífy		
	opportunities to increase or deci	rease prices to drive Sales, (d)		
	To determine how sales and cost	rs will respond to changes in		
	the market conditions, (e) To determine how much money			
	can be spent on Development or Marketing, etc			
	3. <b>Factors:</b> (a) <b>Internal Factors:</b> R&D Costs, Production Costs,			
	Marketíng Costs, Product Launc	ch Dates, etc. (b) <b>External</b>		
	<b>Factors:</b> Market Demand, Chan	ge in Competitors' Prices,		
	Inflation, Forex Rate Fluctuatio	ons, etc.		
Prícíng ín	Dífferent methods are used for prícing and billing customers,			
Servíce Sector	$\cdot$ who receive services are - (a) Supply and Labour Billing, (b)			
	Pure Labour Billing, (c) Cost Plu	s Pricing, (d) Service		
	Overhead Based Billing			
Pareto	1. Focus on the most important (	Concepts of decision making,		
	ín order to símplify the DM process.			
Analysís	> Management can use 2000 relationship in a number of			
	2. Munugement cun use 80.20 re	uttention to how control		
	machanism or planning Concept	s. It haves to clearly establish		
	ton minister or planning concept	s, 11 neips to clearly establish		
	top priorities and to identify bol	in profitable and		
	unprofitable target.			
Pareto	1. Product Pricing	4. Actívíty Based Costíng		
Analysís -	2 Customer Profitability	5 Quality Control		
Applications	2. Customer 2 rojunduny Analysis	5. zuminy control		
	Salue ys is			

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3. ABC Analysis - Stock Control	

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### One Day Revísíon Notes - Performance

#### <mark>Measurement</mark>

Concept	Points to Remember		
Responsíbílity	1. <i>Meaning:</i> (a) Activity centre of a business organisation		
Centre	entrusted with a special task, (b) Unit of function of a business organisation headed by an executive responsible for its performance. 2. <b>Types:</b> (a) Cost, (b) Revenue, (c) Profit, and (d) Investment Centres.		
Responsíbílíty	1. Control system of management accounting and reporting.		
Accounting	<ol> <li>Involves the creation / recognition of various responsibility centers.</li> <li>Standards of performance are clearly defined.</li> <li>Furnishing of performance report at periodical intervals.</li> <li>Actuals compared with standards to identify deviations &amp; initiate appropriate action.</li> </ol>		
Pre requísítes	1. Area of responsibility and	3. Performance Report	
for Resp. Accountíng	authority of each Responsibility Centre	4. Items which may require Management's attention	
	2. Set of goals		

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Limitations	1. Difficulty in preparation of an organisation chart.		
	2. Conflic	et of individual interest w	ith organisational interest.
	3. Passív	e resistance to the reporti	ing system.
Responsíbílíty	1. Meaní	<b>ng:</b> Budgetary Control Sys	stem wherein a budget is
Budantína	prepared for each responsibility centre, showing the		
Бишуесту	performa	ance expected of the Resp	onsíbilíty Centre Manager.
	2. <b>Príncí</b>	<b>ples:</b> (a) Goal Congruence,	(b) Autonomy, and (c)
	Perform	ance Appraísal.	
Performance	1. Identíf	y the <b>Vísíon, Míssíon and</b>	<b>Objectives</b> of the Entity
Measurement	2. Define the <b>Strategy</b> to achieve the above Vision, Mission		
Process	and Objectives of the Entity		
	3. Línk th	ie Strategies with <b>CSFsfor</b>	various Financial & Non
	Financia	l perspectives	
	4. Identify appropriate Performance Measures/ Key		
	Performance Indicators for each perspective/CSF.		
5. Measure the actual outcome and <b>compare</b> with th		d <b>compare</b> with the pre-	
	defined I	Performance Measures.	
	6. Analyse and <b>implement suitable action</b> including redesign		
of prevíous stages.			
Línkíng CSFs		Crítícal Success Factors	Key Performance
and KPIs to		(CSF)	Indícators (KPI)
Strategy	Meaníng	Objectives that	Sets of measures &
		Businesses are trying to	associated targets, that

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		achieve, as an Entity, as	will result in successful
		a Dept, or as SBU.	completion of a CSF.
Focu	ıs	CSFs denote the <b>"what</b> "	KPIs represent the <b>"how</b> "
		factors - í.e. what are the	factors - í.e. how the
		things the Company	Company will achieve
		needs to do in order to	what it wants to.
		achieve its goals.	
Línk	iage	CSFs are tied to the	KPIs are linked to the CSF.
		Entíty's overall strategy	A síngle CSF can have
		& derived from the	more than one KPI, íf
		strategíc goals.	required.
Purp	pose	CSFs seek to go deeper	To operationalize the CSFs
		into the high-level	ínto achievable elements
		strategic goals, and lay	called Targets or
		them out as a líst of	Thresholds. KPI should be
		categorized objectives	specífíc, measurable,
		that will collectively	achíevable, relevant and
		drive the Company's	time-constrained
		strategy forward.	(SMART).
Fact	tors	(a) Industry Structure,	KPI Targets are
		(b) Competitive Strategy,	ascertained using factors
		(c) Envíronmental	like Industry Analysis, and
		Factors, and (d)	Internal Analysís.
		Temporary Influences.	
Revi	íew	To be reviewed &	Governed by a feedback
		evaluated with respect to	and monitoring process, to

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	the Company's high-level achieve CSFs & Goals.			
	strategic goals.			
	Línkage:			
	1. To ensure effective measurement of business performance -			
	(a) KPIs must be selected and designed, so as to ensure that			
	the CSF is delivered if the KPI meets the Threshold, <b>and</b>			
	(b) CSFs in turn must be constructed, to ensure that the			
	Company's strategic vision is delivered if the CSFs are met.			
	2. Objectives, CSFs, and KPIs together represent a chain of			
	línks that together delíver a Company's strategic goal, by			
	breaking down that strategic vision in to a set of quantifiable			
	targets.			
Performance	Important considerations in drawing reports & determining			
Reportína	their scope are - (1) Significance of a Report, (2) Timeliness, (3)			
	Accuracy, (4) Appropriateness, (5) Discrimination, (6)			
	Presentation.			
Dívísíonal	1. <i>Meríts:</i> (a) develops agreed measures of activity, (b) helps in			
Darfarma an a	setting of targets for Managers, (c)leads to greater			
Performance	understanding of Process, (d) clarifies the Entity's objectives,			
Measures	(e) promotes accountability to Stakeholder, (f) better			
	comparison between Divisions, (g) inter-Firm Comparison.			
	2. <b>Demeríts:</b> (a) undue focus on Measurements, (b) focus on			
	one measurement to the detriment of others, (c) more			
	emphasis on short-term measures, (d) misinterpreting the			
	data reported, (e) Misrepresentation of data to suit specific			

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	purposes, (f) using out-of-date measures, and a tendency
	towards being rigid, conventional and unimaginative.
	3. Good Performance Measure: (a) Completeness, (b)
	Pervasíveness, (c) Comprehensíveness, (d) Goal Congruence, (e)
	Responsibility, (f) Goal Orientation, (g) Objectivity, (h) Clarity.
Types of	1. Financial Evaluation:
Performance	(a) Return on Investment (ROI): Divisional Profit expressed
Measures	as a percentage of the Assets employed in the Division.
	(b) <b>Resídual Income (RI):</b> Divisional Profit (less) [Divisional
	Investment × Cost of Capítal].
	(c) <b>Economíc Value Added (EVA):</b> NOPAT less [WACC ×
	Capital Employed], where $NOPAT =$
	(i) Operating Profit (EBIT) (-) Tax Expense (+) (Interest × Tax
	Rate) [OR]
	(íí) Profit After Tax (EAT) + [Interest × (100% - Tax Rate)].
	(d) <b>Shareholder Value Added (SVA):</b> Shareholder Value =
	Value of a Company's present and future Cash Flows,
	díscounted at an appropríate Cost of Capítal.
	2. Financial and Non-Financial Evaluation:
	(a) <b>Tríple Bottom Líne (TBL):</b> Bottom Líne represents "Profít"
	or "Loss". TBL (or 3BL or 3P) Concept focusses on the following
	dimensions - (i) <b>People,</b> i.e. the <b>Social Equity</b> Bottom Line, (ii)
	Planet, the Envíronmental Bottom Line, (iii) Profit, the
	<b>Economíc</b> bottom line

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	(b) <b>Performance Pyramíd:</b> Performance Pyramid links the
	business strategy with day-to-day operations, as under - (i)
	Level 1 or Top Level, (ii) Level 2 or Business Level, (iii) Level 3
	or Operating System Level, (iv) Level 4 or Department Level.
	(c) <b>Performance Prism:</b> It aims to manage the performance of
	an Entity from five inter-related "facets" - (i) Stakeholder
	Satisfaction, (ii) Stakeholder Contribution, (iii) Strategies,
	(ív)Processes, (v) Capabílitíes.
	(d) <b>Building Block Model:</b> focusses on 3 Concepts - (i)
	Standards (ii) Rewards (iii)Dimensions.
Balanced	1. <i>Meaning:</i> Set of financial & non-financial measures relating
Score Card	to a Company's CSFs.
(BSC)	2. <b>Objective:</b> to provide a comprehensive framework for
	translating a Firm's strategic objectives into a coherent set of
	performance measures.
	3. <b>Perspectíves:</b> (a) Customer, (b) Internal, (c) Innovation and
	Learning, (d) Financial.
	4. <b>Advantages:</b> (a) Wholístic approach, (b) Overall Agenda, (c)
	Objectivity, (d) Management By Objectives, (e) Feedback and
	Learning, (f) System Approach.
	5. <b>Dísadvantages:</b> (a) Non-financial Concepts, (b) Need for
	Trade-offs, (c) Objective and Subjective Measures, (d) Non
	Consideration of IT and R&D, (e) Performance Evaluation.
	6. <b>Process of creating BSC:</b> (a) Identify the Firm's Vision, (b)
	Identify the Firm's Strategies, (c)Define CSFs and

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	Perspectives, (d) Identify Measures to ensure everything is as
	planned, (e)Evaluation of BSC, (f) Create Action Plans, (g)
	Follow up and Manage.
	7. <b>Strategy Mapping:</b> (a) allows Entities to describe and
	communicate their strategies, (b) serves as a basis for the
	development of financial and non-financial BSC measures
	that can be used to monitor strategy execution and
	performance, (c) links & aligns organisational and individual
	targets and initiatives with a defined mission and desired
	strategic outcomes,
Benchmarkína	1. <b>Meaning:</b> Process of identifying and <b>learning</b> from the best
	practices anywhere in the world.
	2. <b>Types:</b> (a) Competitive, (b) Strategic, (c) Global, (d) Process,
	(e) Functional, (f) Internal, (g)External, (h) Intra-Group, (i)
	Inter-Industry.
	3. <b>Stages:</b> (a) Planning, (b) Collection of Data & Information,
	(c) Analysis of findings based on data collected, (d)
	Formulation & implementation of recommendations, (e)
	Constant monitoring & reviewing.
	4. <b>Pre-Requísítes:</b> (a) Commítment, (b) Claríty of Obiectives. (c)
	Appropriate Scope, (d)Resources, (e) Skills. (f) Communication.
	5. <i>Dífficulties:</i> (a) Time consuming, (b) Lack of Management
	support, (c) Resistance from Employees, (d) Paper Goals, (e)
	Copy-Paste attitude.
	6. Code of Conduct: (a) Principle of Legality, (b) Principles of

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Exchange, (c) Principle of Confidentiality, (d) Principle of Use, (e) Principle of first Party Contact, (f) Principle of Third Party Contact, (g) Principle of Preparation.

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# <mark>One Day Revísíon Notes - Strategíc</mark> <mark>Analysís of Operatíng I</mark>ncome

Strategic Analysis of Operating Profit



51		e			
Varíable	Fixed	Varíable	Fíxed	Variable Cost	Tixed Cost
Cost	Cost	Cost	Cost	variable Cost	fixeu Cost
Ļ	↓	<u>↓</u>	$\downarrow$	↓	$\downarrow$
B1	<b>B</b> 2	$\mathcal{D}$ 1	$\mathcal{D}$ 2	El	<b>E</b> 2

Component	Computation Formula
GROWTH:	For measuring the increase/ decrease in Revenue and Costs, due to change in Sale Quantity
<b>A.</b> Revenue	(Sales Quantity in CY - Sales Quantity in LY) × Selling

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Effect	Price in LY				
<b>B1.</b> Variable Cost	Input Prices for LY × (A - B) where -				
Effect	A = Actual Units of Input used to produce LY Output, i.e. Base Year Standards,				
	B = Units of Input that would have been used to produce CY output, i.e. Standard Consumption for Actual Output, assuming the same input-output relationship in LY.				
<b>B2.</b> Fixed Cost	Price pu of Capacity in LY × (A - B) where -				
Effect	A = Actual Units of Capacity used to produce LY Output, i.e. Base Year Standards.				
	$\mathcal{B}$ = Units of Capacity that would have been used to				
	produce CY output, i.e. Standard Capacity for Actual				
	Output, assuming the same relationship in LY.				
PRICE	For measuring the Change in the Revenue & Costs due to				
RECOVERY:	Changes in Prices				
<b>C.</b> Revenue Effect	(Selling Price of CY - Selling Price of LY) × Sale Quantity in CY				
<b>D1.</b> Varíable Cost	$(\mathcal{A} - \mathcal{B}) \times C$ where -				
Effect	A = Input Prices for LY, i.e. Standard Prices of Materials, etc. for LY.				
	B = Input Príces for CY, í.e. Standard Príces of Materíals, etc. for CY.				
	<i>C</i> = Units of Input that would have been used to produce				

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	the CY output, i.e. Standard Consumption for Actual
	Output, assuming the same input-output relationship in
	LY.
<b>De</b> Einst	
<b>D2.</b> Jixea Cost	(A - B) × C where -
Effect	$\mathcal{A}$ = Input Prices for LY, i.e. Standard Prices of Materials,
	etc. for LY.
	B = Input Prices for CY, i.e. Standard Prices of Materials,
	etc. for CУ.
	<i>C</i> = Units of Capacity that would have been used to
	produce CY output, i.e. Standard Capacity for Actual
	Output, assuming the same relationship in LY.
PRODUCTIVITY:	for measuring the Change due to Changes in Product Mix
	and/or Yield of Inputs.
<b>E1.</b> Varíable Cost	Input Prices for CY × (A - B) where -
Effect	$\mathcal{A}$ = Units of Input that would have been used to produce
	CY Output, i.e. Standard Consumption for Actual Output,
	assuming the same input-output relationship in LY.
	B = Actual Input or Capacity used for CY.
<b>E2.</b> Fíxed Cost	Price pu of Capacity in $CY \times (A - B) \times C$ where -
Effect	$\mathcal{A}$ = Units of Capacity that would have been used to
	produce CY Output, i.e. Standard Capacity for Actual
	Output, assuming the same relationship in LY.
	B = Actual Input or Capacity used for CY.

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Activity Based Costing (ABC)

Concept	Points to Remember			
Changes ín	1. Co.	st Pool	3. Standard Costing System,	
nature of	Iden	tífication,	4. Design of Cost Accounting System.	
Mfrg Costs	2. A	ctivity Related		
	Costs	5,		
ABC -	An a	ipproach to the costi	ng and monitoring of activities which	
Meaníng	ínvo	involves tracing resource consumption and costing final		
	outp	uts. Resources are a.	ssigned to Activities, and Activities to	
	Cost	Objects based on con	sumption estimates. The latter utillise	
	Cost	Drívers to attach A	ctívíty Costs to Outputs.	
Cost Object	1. <i>Cost Object - Item for which cost measurement is required.</i>			
& Cost	2. Cost Dríver: Factor that causes a change in the cost of an			
Dríver	activity. Cost Drivers are classified as -			
	(a) <b>Resource Cost Dríver:</b> Measure of quantity of resources			
	consumed by an activity & used to assign the cost of a resource			
	to an activity/ cost pool.			
	(b) <b>Activity Cost Driver:</b> Measure of frequency and intensity o			
	demand, placed on activities by cost objects & used to assign			
	actív	víty costs to cost obje	ects.	
	Note	e: Selection of Cost D	rívers is dependent upon - (a) Degree of	
	Corr	elatíon, (b) Cost of M	leasurement, and (c) Behavioural	
	Effects.			
Stages ín	Step	Partículars		
АВС	1	Identífy varíous ac	tivities within the Firm into - Primary	
		& Secondary.		
	2	Relate the Overhea	ds to activities using Resource Cost	
		Drívers.		

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	3	Apportíon costs of	Support activities over Primary			
		actívítíes.				
	4	Determine Activity Cost Drivers for each Activity/ Cost				
		Pool.				
	5	Compute ABC Rate	e = Total Cost of Activity (Cost Pool) ÷			
		Activity Cost Driver				
	6	Assígn Costs to Cos	t Objects using formula- Resources			
		Consumed × ABC I	Rate			
Actívítíes	1. Un	uit Level Activities,	2. Batch Level Activities, 3. Product			
	Leve	l Actívítíes, 4. Fací	lity Level Activities			
VA vs NVA	Valu	e-Added Activities	Non-Value-Added actívítíes (NVA)			
Actívítíes	(VA)					
	Actív	vítíes <b>necessary</b> for	Additional and extraneous activities,			
	the u	tílíty or	not fully necessary for product			
	performance of the		performance / utility.			
	prod	uct.				
	Custo	omers perceíve as	If eliminated, this will not reduce the			
	addii	ng usefulness to the	actual or perceived value that			
	prod	uct or service that	customer obtain by using the product			
	they_	purchase.	or servíce.			
	Work	k that is valued by	Work that is not valued by the external			
	the e	xternal or internal	or internal customer.			
	custo	nmer.				
	They	ímprove or	NVA activities do not improve the			
	maín	itain the quality or	quality or function of a product or			
	funct	tíon of a product.	servíce, NVA actívítíes create waste,			
	VA d	activities result in	result in delay of some sort.			
	"costs	s" and not in losses.				



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	Making produ	ct more	Expediting due to work delays, cost of		
	versatíle for co	ertaín	re-work of defectives, etc.		
	other uses.				
	Management d	aíms to	Management should focus on		
	símplífy VA A	Activities	elimination of NVA Activities and		
	and manage "o	costs".	thereby avoíd "losses".		
Identíficatio	1. Generally, a	ctívítíes r	esulting in Direct Value Added Costs		
n of VA &	are <b>Value-Ad</b> a	led Activ	<b>ítíes</b> - í.e. (a) absolutely necessary, (b)		
NVA	valued by cust	tomer, (c)	performed efficiently, (d) ensures		
	product qualit	тy.			
	2. Activities th	ñat are at	tributed to inefficiency, defective		
	working, and e	are absoli	itely unnecessary are considered as		
	Non-Value-Added Actívítíes.				
	3. Every other activity is considered as "Grey Area Activity",				
	i.e. benefit of doubt activity, which may be further classified				
	ínto "VA" and "NVA" after careful analysis of facts.				
Tíme	Туре	Descrípti	ion		
Components	Processing	Tíme dur	ing which a Product is undergoing		
for VA vs	Tíme	conversío	m actívíty.		
NVA	Inspection	Tíme sper	nt in confirming that the Product is of		
	Tíme	the requí	red quality.		
	Waítíng Tíme	Tíme spei	nt by Raw Material or WIP in waiting		
		for the ne	ext Operation.		
	Move Tíme	Tíme spei	nt in moving Raw Materials, WIP or		
		Finished	Goods between Operations.		
	Storage Tíme	Tíme dur	ing which Materials, WIP, or Finished		
		Goods are	e held in Stock before further processing		
		or shípm	ent.		
I	l	I			

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	Delivery	Time between the receipt of Customer Order and				
	Cycle Tíme	Delivery of Goods.				
	Manufacturin Total Production Time required per unit = VA					
	g Cycle Tíme	g Cycle Time + NVA Time, where				
		$\cdot VA$ Time = Processing Time				
		$\cdot$ NVA Time = Processing Time +Inspection Time				
		+ Waiting Time + Move Time				
	Velocíty	Number of Units produced in the given Time.				
	Manufacturín	Processing Time				
	g Cycle	(Processing Time + Inspection Time + WaitingTime + MoveT				
	Efficiency					
Varíances	Total OH Vari	iance = Efficiency Variance + Price Variance, as				
ín ABC	computed belo	w -				
System	• Efficiency Variance = (Resources Allowed - Actual					
	Resources)×Std ABC Rate					
	• Expenditure	(or Price) Variance = (Std Rate - Actual Rate) ×				
	Actual Cost D	ríver Units used				
$\mathcal{ABN}$	1. The use of A	BC as a costing tool to manage costs at activity				
	level ís known	as Actívíty Based Cost Management (ABM).				
	ABM utílíses a	cost information gathered through ABC.				
	2. Through vai	ríous analyses, víz. (a) Cost Dríver Analysis, (b)				
	Activity Anal	ysis, and (c) Performance Analysis, ABM				
	manages actív	rítíes rather than resources. It determínes what				
	drives the acti	vities of the Firm & how activities can be				
	improved to ir	ncrease profitability.				
	3. ABM seeks t	to satisfy the following customer needs while				
	making fewer	demands for resources - (a)Lower Costs, (b)				
	Hígher Qualít	y, (c) Faster Response Time, and (d) Greater				

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	Innovation.					
	4. Stages:					
	(a) Identification of the activities that have taken place in the					
	Fírm.					
	(b) Assigning Costs to Cost Pool for each activity.					
	(c) Spreading of Support Activities Costs across the Primary					
	Activities.					
	(d) Determining Cost Driver for each activity.					
	(e) Assigning the costs of Activities to Products, according to					
	product demand for Activities.					
	5. Busíness Applications: (a) Cost Reduction, (b) Activity Based					
	Budgeting, (c) Business Process Reengineering (BPR), (d)					
	Benchmarkíng, (e) Performance Measurement.					
	6. <b>Benefits:</b> (a) Cost Reduction, (b) Budget Implementation, (c)					
	Cost Definition, (d) Management Decision Making, (e) Efficient					
	Resource Utilisation.					
Customer	Using ABC, profitability can be analysed customer group-wise,					
Profítabílíty	sínce ABC creates cost pools for activities. Customers use some					
Analysís	activities but not all, and different groups of customers have					
	dífferent 'Actívíty Profíles'. Hence analysis of relatíve					
	profitability based on customer category and related decision-					
	making is called Customer Profitability Analysis.					

Format of DPP Statement

Partículars / Product	А	В	С	$\mathcal{D}$	Total
Selling Price per unit	XX	XX	XX	XX	XX
<b>Less:</b> Bought-in-Price per unit	xx	xx	xx	xх	xx
Gross Margín per unit	XX	xx	xx	XX	XX
<b>Less:</b> Directly Attributable Product Costs	XX	xх	xх	xx	XX

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One Day Revision Notes - May 2018 - CA Fir	al - SC	CM & F	۶E (Co	sting) E	Зу
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1. Warehousing and Storage Costs - e.g. space,	XX	XX	XX	XX	XX
ínsurance					
2. Transport Costs - e.g. fuel, vehícle	XX	xx	xх	xx	xx
maíntenance, labour					
3. Product Batch Costs	xх	xx	xх	xx	xx
4. Inventory Financing Costs	XX	xx	XX	xх	xx
Dírect Product Profít per unit	XX	XX	XX	XX	XX
<i>Less:</i> Indirect Costs and Common Overheads					XX
Net Profít					XX

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### One Day Revísíon Notes - Budgetary

#### <mark>Control</mark>

Concept	Points to Remember
Budget	1. Budget is a financial and /or quantitative statement.
	2. prepared & approved before a defined period in which it is to
	be pursued to attain given objectives.
	3. may include Income, Expenditure and Employment of
	Capítal.
Budgetary	Process by which budgets are prepared for the future period
Control	and are compared with the actual performance for finding out
Control	variances, if any. Managers set financial and performance
	goals, compare the actual results with the budgets, and adjust
	performance, as ít is needed.
Prerequísite:	s1. There should be clear demarcation between areas of
of Effectíve	Managerial Responsibility.
Budgetary Control	2. Budget Targets should be reasonable and capable of being achieved.
	3. There should be proper Data Collection, Analysis and Reporting Techniques.
	4. Varíance Reports should be generated in a timely manner.
	5. The reporting periods should be shorter and appropriate for the Entity, generally a month.

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	6. Reports should be aimed at individual Managers, rather					
	than as general information.					
	7. There should be an attitude of Personnel to take Reports seriously.					
	8. Focus should be to get operations back under control if they are shown to be out of control.					
Límítatíons	1. Not strategic	ally focussed on long-	term goals,			
of	2. Often contra	dictory amongst then	nselves,			
Traditional	3. Focus on Cost Reduction and not on Value Creation,					
Budgeting	4. Based on unsupported assumptions and guesswork,					
	5. Time-consuming and costly,					
	6. Lacks responsíveness and flexíbílity,					
	7. Creates barrier to change,					
	8. Does not add much Value,					
	9. Creates Departmental Barriers rather than encourage					
	Knowledge Sharing,					
	10. Updated too infrequently, usually annually,					
	11. Does not ade	equately motívate peo	ople,			
Tradítíonal	Poínt	Traditional	Beyond Budgeting			
Budgetíng		Budgeting				
vs Beyond	Obiective	Efficient Utilization	Hiah Dearee of Enterprise			
Budgeting		of Financial Capital	Adaptability and Constant			

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351
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	and other Resources.	Innovatíon
Targets and	• Incremental	• Stretchable Goals
Rewards	Targets	$\cdot$ Relative Targets and
	• Fixed Incentives	Rewards
Planning and	• Fixed Annual	• Contínuous Planníng /
Controls	Plans	Improvement
	• Variance-based	• KPI's & Rolling
	Controls	Forecasts
Resource and	• Pre-allocated	• Resources on demand
Coordination	resources	• Dynamic Co-ordination
	• Centralised	
	coordination	
Organizational	• Central Control	• Local control of Goals/
Culture	• Focus on	Plans
	managing numbers	$\cdot$ Focus on Value Creation

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# <mark>One Day Revísíon Notes - Basícs of</mark>

### <mark>Strategíc Cost Management</mark>

	Dífference	e between <b>Traditional</b> Y	vs Strategíc Cost Management
		ТСМ	SCM
-	Approac	<b>Re-actíve</b> Approach	<b>Pro-actíve</b> Approach
	ĥ		
	Tíme	focusses on <b>short-</b>	focusses on <b>long-run</b>
		<b>run</b> objectives	objectives of the Firm.
	Dímensí	TCM aíms at	SCM aims at satisfying all
	on	satisfying the	Stake-holders, and has
		internal decision-	ínternal & external
		making dimension.	dimensions.
	Busíness	viewed as <b>functions,</b>	viewed as part of a <b>Value</b>
	Actívítíe	víz. Manufacturing,	Chain concept, with intricate
	S	Admín, Sellíng,	inter-relationships.
		Dístríbutíon, etc.	
-	Product	Internal Perspective	External Perspective of
	Focus	of Product, í.e.	Product, i.e. identify what
		produce what the	customers want, and
		Firm is good at	increase capabilities to
		producing, and	produce products for
		effectívely market ít	satisfying Customers.
-	Impact	may lead to inferior	SCM seeks to maintain and

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	07			
	on		quality of products	<b>ímprove value or quality</b> to
	Qualíty	1	& servíces, to lower	the Customer.
			costs.	
	Cost		<b>Cost Unít</b> is taken	involves detailed analysis of
	Dríver		as the Cost Dríver.	multiple Cost Drivers, for
	Concept	t	Thus, TCM is a	each activity. In addition,
			volume-based	Structural and Executional
			absorption costing	Cost Drívers are also
			approach.	identified.
	Rísk		TCM is a <b>rísk-averse</b>	SCM seeks to <b>manage rísks</b>
			approach.	effectívely.
	Approa	ю	Primary Objective	Primary Objective is Cost
	h to Cos	st	is Cost Control &	Management & Cost
			Cost Reduction.	Containment <b>símultaneously.</b>
Concept	Points to Remember		Remember	
	Scope	$\mathcal{E}$	nsuring adherence to	Assisting an Entity to create
	of	$\mathcal{B}$	udgets / Plans, and	sustainable <b>competítíve</b>
	MIS	d	rawing Managerial	<b>advantage</b> through - (a)
	Repor	А	ttention to major	Product Dífferentiation, and
	ts	$\gamma$	aríances.	(b) Cost Leadership.
	Cost	$\mathcal{T}$	CM primarily uses	SCM uses both <b>internal</b> &
	Data	ír	<b>iternal,</b> historical cost	<b>external</b> data, e.g. Market
		d	ata.	Information, Competitive
				Information.
	Econo	T	CM uses símple	SCM uses advanced models
	míc	m	odels of Mícro-	ín Economics, Industrial
	Model	$\mathcal{E}$	conomics and Price-	Organisation, Operations
	S	$\mathcal{D}$	emand relationships	Research, Value Analysis,



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		for cost analysis.	etc.
Component	1. ^	 Value Chaín Analysís - Refe	er thís Chapter
s of	2. Cost Dríver Analysís - Structural vs Executional Cost		
Strategíc	Dr	rivers:	
Cost		Structural Cost Drívers	Executional Cost Drivers
Manageme	(a	They consist of	They capture a Firm's
nt	)	organisational factors	operational decisions on how
		that determine the	best to employ its resources to
		economíc structure	achieve its goals and objectives.
		driving the cost of the	
		Fírm's products.	
	<i>(b</i>	These reflect a Firm's	These Cost Drivers are
	)	long-term decísíons,	determined by management
		which position the Firm	polícy, style & culture. They
		in its industry and	are comparatively <b>short-term.</b>
		marketplace.	
	(с	Structural Cost Drivers	Executional Cost Drivers may
	)	may change.	ímprove.
	(d	They cover Concepts like	They cover Concepts líke
	)	Scale, Scope, Learning,	Capacity Utilisation, Plant
		Technology, Complexity,	Layout, Product Design,
		etc.	Employee Participation,
			Supplier and Customer Liaison,
			etc.
	3. 5	Strategic Positioning Analy	sís (SPA):
	(a)	SPA is an Entity's relative	position within its Industry
	matters for performance,		
	(b) SPA is concerned with impact of external and internal		

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	environment on the overall strategy of a Firm,
	(c) Strategic Positioning - (i) reflects the choices an Entity
	makes about the kind of value it will create and how that
	value will be created differently than its Competitors, (ii)
	considers the future, to assess whether the current strategy is a
	suitable fit with the strategic position.
	(d) Strategic Position is driven by - (i) External Environment,
	(ii) Internal Environment, (iii)Organization Values, Culture
	and Systems.
Vísíon,	1. <b>Vísíon:</b> (a) a road map of a Company's future, (b) provídíng
Míssíon &	specifics about technology and customer focus, the geographic
Objectíves	and product markets to be pursued, and (c) the capabilities it
w.r.t	plans to develop, and the kind of Company that the
Strategíc	Management is trying to create.
Cost	2. <i>Mission:</i> (a) Mission is an expression of the growth ambition
Manageme	of the Firm, (b) Mission answers the question "What business is
nt	the Company doing?", (c) Mission seeks to ensure unanimity of
	purpose.
	3. <b>Objectíves:</b> Objectives are - (a) an organization's
	performance targets, i.e. results and outcomes it wants to
	achieve, (b) yardstick for tracking an Entity's performance
	and progress, (c) used for translating Business Vision and
	Mission, (d) open-ended attributes that denote the future states
	or outcomes, whereas Goals are close-ended attributes which
	are more precise and specific. Note: The terms "Objectives" and
	"Goals" may be used interchangeably.
	4. Sígníficance:
	(a) Purpose of Strategic Cost Mgmt is to <b>align</b> the Vision &



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Minai	ion Chatamanta along with Obiosticus	
JMISSI	ion statements, along with Objectives.	
(b) E <u>f</u>	fective Cost Management involves a broad focus on the	
<b>Value Chain,</b> to identify which activities are the most valuable		
(i.e. in terms of Cost or Differentiation Advantage) to the Firm		
and which ones could be improved to provide competitive		
advantage.		
(c) Strategic Cost Management seeks to evaluate the positive or		
adverse reactions of the Entity's Strategies (based on its Vision,		
Míssi	ion, Objectives) to each element of - (i) Value Chain, (ii)	
Posít	ioning Decisions and (iii) Cost Drivers.	
(d) Th	he overlap between these three types of Analysis	
Techniques can relate back to Executional, Structural and		
Organizational Costs. Cost is thus driven by the strategic		
choíc	es that Managers make in the Firm.	
Ροί	Description	
nt		
Con	A Value Shop is an organization designed to solve	
cept	Customer or Client problems rather than creating value	
	by producing output from an input of Raw Materials.	
Fea	1. Mobilize resources to solve specific problems.	
ture	2. In Value Shop, <b>no value addition</b> takes place. It only	
S	for a la mith the smaller figure out the main and	
2	aeais with the problem, figure- out the math area	
5	requires its service and finally comes with the solution.	
Poínt	requires its service and finally comes with the solution.	
Poínt	<i>aeals with the problem, figure-out the main area</i> requires its service and finally comes with the solution. <i>ts to Remember</i> 3. <i>iterative,</i> repeatedly performing a generic set of	
Poínt	aeals with the problem, figure-out the math area requires its service and finally comes with the solution. ts to Remember 3. iterative, repeatedly performing a generic set of activities until a solution is reached.	
Poínt	<i>aeals with the problem, figure- out the math area</i> requires its service and finally comes with the solution. <b>ts to Remember</b> 3. <b>iterative,</b> repeatedly performing a generic set of activities until a solution is reached. 4. applies to <b>Service Sector Entities,</b> like Telecom,	
	Míssi (b) E <u>f</u> Valu (i.e. i and va (c) St adva (c) St adve Míssi Posít (d) Th Techi Orga choic Poí nt Con cept Fea ture	



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		5. <b>Support Activities</b> in a Value Shop comprise of - (a)
		Infrastructure, (b) Human Resource Management, (c)
		Technology Development, and (d) Infrastructure.
	Actí	(a) Acquisition, (b) Problem Solving, (c) Decision-making,
	vítí (d) Execution, (e) Control.	
	es	
	Are	Areas of Value Shop includes - 1. Problem & Opportunity
	as	Assessment, 2. Resource Mobilisation, 3. Project
		Management, 4. Solutions Delivery, 5. Outcome
		Measurement, & 6.Learníng.
Supply	1. It í	s the entire network of Entities working together to
Chaín	design, produce, deliver and service products.	
	2. All activities associated with the flow and transformation of	
	goods from Raw Material to the Final Customer is called	
	Supply Chain.	
	3. It a	comprises Vendors who supply Raw Material, Producers
	who convert the Raw Material into Finished Products,	
	Warehouses that store products, Distribution Centers that	
	deliv	er to the Retailers, and Retailers who sell the product to
	the J	Final Customer.
Supply	1. <b>De</b> j	finition: The Global Supply Chain Forum (GSCF) defines
Chaín	Supply Chain Management as the "integration of key business	
Manageme	processes from end-user through original suppliers that	
nt (SCM)	provides products, services, and information that add value	
	for c	ustomers and other stakeholders".
	2. <b>Pr</b>	ocess: (a) Customer Relationship Management, (b) Supplier
	Relat	tionship Management, (c) Customer Service Management,
	(d) D	emand Management, (e) Order Fulfilment, (f)
	1	

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	Manufacturing Flow Management, (g) Product Development				
	& Commercialization, (h) Returns Management.				
	3. Benefits: (a) New/ Improved Processes, (b) Standardization,				
	(c) Customer Responsíveness, (d)1	Inventory Reduction, (e)			
	Personnel Reduction, (f) Product	ívíty Improvement, (g) Order			
	Management Improvement, (h)	Fínancial Cycle Improvement,			
	(i) Information Visibility, (j) Flex	cibility and Adaptability, (k)			
	Better Busíness Performance.				
Push Model	Push Model	Pull Model			
and Pull	Process Flow:	Process Flow:			
Model	(a) Supplier gives materials to	(a) Customer orders the			
	the Manufacturer/Producer.	Goods with Retailer.			
	(b) Manufacturer produces	(b) Retailer calls for Stock			
	Products as per Demand	from the Wholesaler			
	Forecast, and supplies to	Distributor, as per Orders			
	Wholesaler Distributor.	received.			
	(c) Wholesaler forwards goods	(c) Wholesaler calls for			
	to Retailer based on past stock	Products from the			
	movements and demand	Manufacturer as per			
	forecast.	Retaílers' Orders.			
	(d) Retailer stocks goods as per	(d) Manufacturer produces			
	Supplies received.	Products as per Orders			
	(e) Customer buys goods, íf	received from Wholesaler			
	available with Retailer.	Dístríbutor!			
	Note: Demand Forecasting is	(e) Supplier gives materials			
	done by many advanced	to the Manufacturer as per			
	techniques incl. Operations	orders received from the			
	Research, Data Míníng, etc.	Manufacturer.			

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	This is a production-	This is a customer-oriented	
	availability based approach.	and market-driven	
	Customer is generally required	approach. Customers have a	
	to buy whatever is available in	significant voice in the	
	the market.	functioning of the Supply	
		Chain.	
Flows	Flows may be of - (a) Material, (l	δ) Information, (c) Capital, in	
	the following manner -		
	1. <b>Upstream Flow:</b> It is the Flow	relating to the <b>Supplier.</b>	
	2. Downstream Flow: It is the Flo	ow relating to the <b>Customer.</b>	
Manageme	1. Upstream SCM: This involves S	Management of Transactions	
nt of	with Suppliers, and includes - (a)	Relationship with Suppliers,	
Upstream	(b) Use of IT, i.e. E-Procurement	Process such as E-Sourcing, E-	
and	Procurement, E-Payment.		
Downstrea	2. Downstream SCM: This involves Management of		
m	Transactions with Customer. It i	ncludes -	
Flows	(a) <b>Relationship Marketing:</b> 6 M	arket Models víz (a) Internal	
	Markets, (b) Referral Markets,		
	(c) Influence Markets, (d) Recruí	tment Markets, (e) Supplier's	
	Markets, (f) Customer's Markets.		
	(b) Customers Relationship Manu	<b>agement:</b> Strategies such as -	
	(a) Customer Behavíour Analysi:	s, (b) Customers Account	
	Profitability (CAP), (c) Customer	s Lífetíme Value (CLV),	
	(d) Customer's Selection, Acquisit	tion, Retention and Extension.	
	(c) <b>Others:</b> Information Technolog	gy, Servíce Level Agreements	
	(SLA), Brand Strategy.		
Gaín	1. Meaníng: Arrangement where	a Supplier agrees to perform	
Sharing	its side of the contract with no g	uarantee of receiving a	

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Arrangeme	payment. Instead, any payment received is based upon the
nt	benefits that emerge to the Customer as a result of the
	successful completion of the Supplier's side of the bargain.
	2. <b>Rísk:</b> The Supplier can be descríbed as taking an Equity
	Stake in the Customer rather than entering into a contract
	with the Customer. The Supplier has the risk of receiving no
	payment at all.
Concept	Poínts to Remember
	3. <b>Returns:</b> If the benefits to the Customer are very high, the
	Supplier can be rewarded with a large return. Such
	Arrangements constitute a win-win situation for Suppliers
	and their Customers.
	4. <b>Effectiveness:</b> For Gain-Sharing to be effective, there must
	be no rewards for the Suppliers to achieve a higher return
	through adversarial behaviour or by hiding behind the
	contract.
Outsourcín	1. <i>Meaning:</i> (a) It involves shifting tasks, operations, jobs or
g or	processes to another party for a span of time, so as to reduce
Contractín	costs or improve efficiency, (b) The Outsourced Activity can be
g Out	done at the Entity's premises or outside, (c) Outsourcing may
	relate to manufacturing activities or service activities.
	2. <b>Meríts:</b> (a) Savings in Cost of Operations, Labour, OH, (b)
	Reduction in Investments in Technology, Infrastructure and
	HR, (c) Better flexibility in Staffing and Manpower
	Management, (d) Effective when used in the context of
	downsizing or re-engineering, (e) Obtaining the efficient
	services of a Third Party in specified outsourced activities.
	3. <b>Demeríts:</b> (a) Quality Problems due to inexperienced

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	workers or improper process, at Contractors level, (b) Reduced
	control over operations and deliverables of activities
	outsourced, (c) Risk of losing sensitive data and the loss of
	confidentiality, etc.
Strategíc	1. Challenges to Cost Mgmt: (a) Fragmented & Unorganized
Cost	Structure of Industry, (b) Imbalance of Power across the
Manageme	Supply Chain, leading to exploitation of most Farmers and
nt ín	their operations are at very low margins, (c) Low levels of
Agrícultur	literacy and hence, low initiative to adopt new Strategies,
e Sector	(d)Lack of proper understanding of Costs and Prices, (e) Lack
	of collaboration between Farmers, so that Profits are
	transferred only to the Intermediaries, (f) Inadequate
	regulation of Intermediaries, (g) Price Fluctuations, which
	leads to difficulty in applying techniques like Target Costing,
	etc.
	2. Cost Management Strategies: (a) Using Activity Based
	Costing Techniques, to trace all costs effectively, and
	determine Pricing Method accordingly, (b) Strengthening of
	the Supply Chain, with respect of creation of infrastructure
	for Logístícs, Storage, etc.
Strategíc	1. <i>Features of IT Sector:</i> (a) Various sizes of Entities -SMEs to
Cost	very large Entities, (b) Variety of services, deliverables &
Manageme	customer requirements (lack of standardization), (c) Multiple
nt ín	Activity Models - (i) in-house / on-site work, (ii) development /
Informatío	support / upgradation projects, (d) Complex Operating
n	Structure, with a separate Department for Cost Allocation,
Technology	Budgeting, etc. (e) Difficulty in assignment and management

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Sector	of Indirect Costs, (f) Difficulty in measurement of Service WIP,
	etc.
	2. Cost Management Strategies: (a) Use of Activity Based
	Costing to trace Direct and Indirect Costs relating to
	activities, (b) Effective Cost Analysis and MIS Reporting, for
	better Performance Evaluation, (c) Use of Value Chain
	Analysis across different activities / levels, etc.
	3. <b>4D Framework:</b> (a) Defining Organization Vision, (b)
	Documentation of the Current State, (c)Delineation of Target
	Business Architecture, (d) Decision: Build vs Buy.
Strategíc	1. <i>Features of Power Sector:</i> (a) Stakeholders = Existing and
Cost	Future Consumers, Industríes, Government, Regulators, and
Manageme	Investors, (b) Continuous growing demand of Electricity,
nt ín Power	coupled with shortage of Coal Reserves, (c) Limited number of
Sector	Suppliers of Electricity, mostly PSUs closely regulated by
	Govt, (d) Highly Capital-intensive, with long gestation periods
	(7-8 years) and an even longer Operating Period (over 25
	years), (e) Contínuous Network between Generators,
	Transmitters, Distributors, and Consumers. Electricity is
	generated at Power Plants and moves through a <b>Gríd,</b>
	consisting of Electricity Substations, Transformers, and Power
	Lines that connect Electricity Producers and Consumers, (f)
	Significant Distribution Loss & Inefficiency Gaps between
	generation and consumption of electricity, along with in-
	dísciplined Consumer, (g) Flexible Cost Allocation system, (h)
	Energy Subsidies, (i) Tariff Determination based on cost at
	various points of operation.
	2. Cost Management Strategies: (a) Developing a Flexible Cost



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Allocation, (b) Multi-dimensional Costing Calculations, (c) Price Determination & Tariff Regulation, (d) Analysis of Distribution Losses and Inefficiency Gap, (e) Effective Cost Analysis & MIS Reporting, (f) Use of Value Chain Analysis across different activities / levels - Generation, Transmission, Distribution, Storage, Marketing, Customer, Metering, Collection Management, Finance, etc.

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## <mark>One Day Revísíon Notes - Value Chaín</mark>

### <mark>Analysís</mark>

Concept	Poínts to Remember	
Value Chaín	<b>1. Value Chain:</b> The Value Chain for any Firm is the value-	
Concept	creating activities, all the way from basic Raw Material sources from Component Suppliers through to the ultimate end-	
	use product delivered into the Final Consumers' hands.	
	2. Industry Value Chain: (a) It refers to the series of activities, which add value to the product supplied to the industry, (b) It starts with the value-creating processes of Suppliers, who provide the basic Raw Materials and Components, (c) It continues with the value creating processes of different classes of Buyers or End-Use Consumers, and culminates in the disposal	
	and recycling of materials.	
Actívíty	1. Primary /Line Activities - (a) Inbound Logistics, (b)	
Classificatio	Operations, (c) Outbound Logistics, (d) Marketing and Sales, (e)	
n	Post Sales Servíce.	
	2. Support Activities - (a) Procurement, (b) Technology Development, (c) HR Mgmt, (d) Admn.	
Forms of	Dífferentíatíon Advantage	Low-Cost Advantage
Competítíve	Occurs when customers perceive	A Firm enjoys a relative low-
Advantage	a Fírm's product is of higher	cost advantage íf íts total
	quality, involves less risk and / or	costs are lower than the

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351	
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C	outperforms competing products.	market average.			
0	Offer customers better value for	Offer customers equivalent			
e	equívalent price.	value for lower price.			
Q	Gaíned by -	Gaíned by -			
1	. Higher Quality of Products /	1. Access to low-cost raw			
5	Servíces,	materíals,			
2	e. Innovative Products & superior	2. Innovatíve process			
C	customer servíce,	technology,			
3	s. Offering a wide range of	3. Low-cost access to			
ļ	products / services which are	distribution channels			
C	iligned with Customer	4. Economíes of scale,			
2	expectations,				
4	4. After-Sales Support, On-Time	5. Learning or Experience			
2	Delivery, reducing waiting time	Curve Effects,			
C	of Customers, etc.	6. Superior Operating			
		Management, etc.			
1	Exploited by -	Exploited by -			
1	. Increasing prices until it offsets	1. Pricing the products lower			
í	mprovement in customer	than its competitors' to gain			
Ĺ	benefits, or	market share &			
2	e. Pricing below the 'full	maíntaín current			
ľ	premium' level to build market	profitability, or 2. Matching			
s	hare.	with the price of competing			
		products and increase its			



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				profítability.	
Usíng	1. Resources:				
Resources	Poínt	Tangíble Intangíble		jíble	
and Capabílítíes	Meanín a	Assets that can be seen and	Assets Fírm's	that are rooted deeply in the history and have	
for Competítíve		quantífied.	ассит	ulated over tíme.	
Advantage	Imitabil ity	Comparatively easier for Rivals to imitate & duplicate.	ively They are embedded in unique Rivals patterns of routines. Hence, & relatively difficult for Competi to analyse & imitate.		
	'Exampl es	Production Facilities, Financial Resources, etc.	Trust Emplo Capac reputa Emplo etc.	between Managers & yees, Scientífic Capabilities, ity for Innovation, Firm's ition for how it interacts with yees, Customers, Suppliers,	
	<ul> <li>2. Capabilities: Capabilities are said to exist when the Resources have been effectively integrated to achieve specific task(s).</li> <li>Examples: (a) R&amp;D to provide better Product &amp; Design Quality, (b)Production Facilities being nearer to Demand Locations, (c)</li> <li>Effective Logistics Management to reach Customers, (d)</li> <li>Innovation in Advertising, Promotion, Publicity, (e) Efficient and quality- oriented Customer Service, (f) Using Technology for betterment of operations, etc.</li> <li>3. Competitive Advantage: (a) Unique Sets of Resources and the</li> </ul>				



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	way they are handled by the Firm using its Capabilities, lead to				
	Competitive Advantages leading to wealth creation, (b) To				
	successfully use their resources over time, Firms should				
	constantly innovate on how to manage resources to increase the				
	value for customers, (c) If a Firm has superior Resources &				
	Capabilities than its Competitors, and adopts a strategy that				
	utilizes these Resources and Capabilities effectively, it can				
	obtaín Competítive Advantage.				
Steps ín	1. Internal Cost Analysís, 2. Internal Dífferentiation Analysis, 3.				
VCA	Vertical Linkage Analysis				
Internal	1. Identify the Firm's value-creating processes.				
Cost	2 Determine portion of Total cost of product/service				
Analysís -	attributable to each value creating unit				
Steps	attributable to each value creating and.				
	3. Identify the cost drivers of each process				
	4. Identify the links between processes.				
	5. Evaluate the opportunities for achieving relative cost				
	advantage.				
Internal	1. Identify the Customers' value-creating processes.				
Dífferentíat	2 Evaluate Differentiation Strategies for enhancing Customer				
íon Analysís	Value.				
	3. Determine the best sustainable differentiation strategies.				
Vertícal	1. Identify the Industry's Value Chain and assign Costs,				
	Revenues & Assets to value-creating processes.				
Linkage					

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Analysís-	2. Diagnose the Cost Drivers for each value-creating process.				
Steps	3. Evaluate the opportunities for sustainable competitive				
	advantage.				
Industry	1. Bargaíning Power of Buyers	4. Threat of New Entrants			
Structure	2. Bargaining Power of	5. Intensity of Competition			
Analysís	Suppliers				
	3. Threat of Substitute Products				
	or Servíces				
Core	1. Created by superior integration	on of technological, physical &			
Competencie	human resources.				
S	2. Represent distinctive skills, in	tangible, invisible, intellectual			
Analysís	assets & cultural capabilities.				
	3. Core Competence-based diversification reduces risk &				
	investment, & increases the opportunities for transferring				
	learning & best practice across business units.				
	4. Core Competence is identified by - Leverage Test, Value				
	Enhancement Test, Imitability Test.				
	5. Steps in VCA approach for competitive advantage includes				
	the following -				
	(a) Validate core competencies in current businesses.				
	(b) Export or leverage Core Competencies to the Value Chains of				
	other existing businesses.				
	(c) Use Core Competencies to reconfigure the Value Chains of				

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	existing businesses.			
	(d) Use Core Competencies to	create new Value Chaíns.		
Segmentatío	1. Identífy segmentatíon vari	ables and categories		
n Analysís - Steps	2. Construct a Segmentation Matrix			
	3. Analyse Segment Attractíveness			
	4. Identify Key Success Factors for each segment			
	5. Analyse attractiveness of Broad versus Narrow Segment			
	Scope			
Límítatíons	1. Non-availability of data,	4. Identification of Cost		
of VGA		Drívers,		
	2. Identification of Stages,	5. Resistance from Employees,		
	3. Ascertaínment of Costs,	6. Scíence Vs. Art		
	Revenues & Assets,			
Role of	Concepts: 1. Need for Educatí	on, traíníng & awareness, 2.		
Mgmt	Exploring for information, 3.	Creativity, 4. System Design, 5.		
Accountant	Cooperation.			
ín VC A	Mgmt Accountant shall also - (a) collaborate with Engineering,			
	Production, Marketing, Distribution and Service Professionals,			
	(b) focus on the Strengths, Weaknesses, Opportunities and			
	Threats identified in the Value Chain Analysis Results, (c)			
	enhance the Firm's Value on a sustainable basis.			



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VGA Vs.	Tradnl Mgmt A/cíng	Value Chain Analysis		
Tradítional				
Accountína	1. Internal Focus	External Focus		
Systems	2. Seeks cost reduction in "Value	Seeks "Competítíve Advantage"		
	Added" process.	based on entire set of linked		
	3. Use of Single Cost Driver	actívities.		
	and a time at an ar a firm	Multíple Structural &		
	4. Application at overall firm	Executional Drivers used.		
	level	Unique Cost Drivers for each		
	5. Seeks adhoc cost reduction	value activity.		
	solutions for Cost Containment.	<i>Cost Containment as a function</i>		
	6. Focus on control of	of the cost drivers regulating		
	manufacturing costs.	each value activity.		
	7. Internal Information is used.	Focus on gaining competitive		
	8. Inter-Fírm Comparíson	advantage.		
	partíally present.	External and internal		
		information are used.		
		Focus on full-fledged		
		benchmarking.		
		benchmarking.		

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#### One Day Revísíon Notes - Qualíty

### <mark>Management</mark>

Concept	Points to Remember				
Steps ín	1. Identification of Customers / Customer Groups.				
TQ.M	2. Identification of Customer Expectations.				
	3. Identification of Customer of product utilities.	decision-making requirements and			
	4. Identification of perceived process and product utilities.	problems in decision-making			
	5. Comparíson with other org	anisations and Benchmarking.			
	6. Customer Feedback. 7. Identification of improvement opportunities.				
	8. Quality Improvement Process through - (a) Determination of				
	new strategies, (b) Elimination of deficiencies, and (c)				
	Identifying solutions.				
TQM	1. Clear exposition of benefits	6. Understanding the needs of			
Príncíples	of project.	the whole process.			
	2. Total Employee	7. Use of graphical & pictorial			
	involvement (TEI). techniques to achieve				
	3. Process measurement. understanding.				

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8. Establishment of performance 4. Involvement of all customers & contríbutors. specífications & targets. 5. Elimination of irrelevant 9. Use of errors to prompt data. contínuous ímprovement. 10. Use of statistics to tell people how they are doing. TQM 4. Greater emphasis on Team 1. Increased awareness of Work, and Quality Culture in the Firm, Benefíts 5. Better Control over 2. Commítment to Contínuous Improvement, processes, operations and costs. 3. Greater focus on Customer Satisfaction, 6 C's 3. Contínuous 1. Commítment, 5. Customer Focus, *improvement*, 2. Culture, 6. Control 4. Co-operation, 4 P's 1. People, 2. Process, 3. Problem, 4. Preparation 1. Costs of Quality Conformance / Compliance (also called Cost Cost of Quality of Good Quality, Price of Conformance, Cost of Control, etc.): This is classified as - (a) Prevention Costs, (b) Appraisal Costs, 2. Costs of Quality Non-Conformance / Non-Compliance (or Cost of Poor Quality, Price of Non-Conformance, Cost of Failure to Control, etc.): classified as - (a) Internal Failure Costs, (b) External Faílure Costs.

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#### Note:

	1. COQ = P-A-F (Prevention-Appraisal-Failure) Model. <b>Steps:</b> (a)
	Obtain information on the number of failures / defects /
	quality-related problems, (b) Identify appropriate assumptions
	to process the quality- related data effectively, (c) Analyse the
	impact of various resolutions that the available to resolve the
	quality-related problems, (d) Allocate the resources to address
	quality-related problems, (e) Evaluate the impact of whether
	the resolutions have sufficiently tackled the occurrence of
	quality-related problems.
	2. COQ can be computed - (a) in terms of effort (i.e. hours /
	days), (b) in terms of money (i.e. amounts), (c) in terms of
	percentage (% of Total Costs, % of Revenue, etc.)
	3. Optimal COQ is the level at which the total of all Costs above
	are minimized. The relationships of COQ are as under- (a) A
	small increase in Prevention Costs can lead to higher savings in
	Appraisal Costs, (b) A small increase in Internal Failure Costs,
	can lead to reduction / avoidance of many External Failure
	Costs, (c) A small increase in Cost of Compliance, leads to higher
	savings in Costs of Non-Compliance.
Approaches	1. Higher Quality means Higher Cost: (a) Quality can be
to Cost of	achieved only by spending more towards Materials, Labour,
Qualíty	and Expenses, (b) Additional Benefits obtained from such
(COQ)	ímproved quality, may not always compensate for the
	Additional Costs incurred by the Entity. So, Quality Costs need
	not be incurred.

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	33
	2. Cost Savings > Cost of improving Quality: (a) Improving or
	maintaining quality, leads to higher cost, (b) However, such
	hígher costs can be offset by Cost Savings in less rework, less
	scrap, less defectives, etc. So, it is preferable to incur COQ.
	3. Quality Costs are Relevant Costs for being in business: (a)
	Quality Costs are those incurred in excess of those that would
	have been incurred if the product was produced / service was
	rendered exactly right the first time, (b) COQ comprises both
	Direct Costs (tangible, accounting costs), and also Indirect Costs
	(loss of Market Share, Opportunity Costs, etc. that are
	íntangíble and non-a/cíng costs).
Measure -	1 Many items of COO are difficult to identify by formal cost
mont of COO	1. Smarty tients of CO2 are afficiat to taening by format cost
meni oj COQ	medsurement systems. Hence, COQ is viewed as similar to an
	<b>Iceberg,</b> i.e. the portion above the water level is only visible,
	but the portion below water level, and its size cannot be
	vísualized.
	2. The visible items of COQ (i.e. Iceberg above the water level)
	ínclude - (a) Waste, Scrap, (b) Rejects, (c) Customer Returns and
	Product Recalls, (d) Rework, (e) Inspection and Testing, etc.
	3 Invisible COO Items (i.e. Icebera below the water level): (a)
	Development Cost of Failed Product. (b) Excessive IT System
	Costs. (c) Excessive Employee Fluctuations. (d) Excessive Field
	Service Expenses, (e) Time Delays, (f) Planning Delays, (g)
	Unused Capacity, (h) Excessive Overtime. (i) Incorrect
	Paperwork /Sales Order, (j) Pricing or Billing Errors, (k) Time
	with Dissatisfied Customer, (1) Excessive Inventory related
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	Costs, etc.						
Contí	- Cautín		<b>T</b>				
Conti.	1. Continu	uous Process .	Improvement b	elieves in en	couraging		
Process	every member of the Firm to continuously strive to effici						
	serve the	ír customers,	who may eithe	er be externa	l or ínternal.		
Improvemen	2 The ch	allonao is in 1	womotina activ	vitios that co	ntímuoushi		
t,							
ata	moaijy p	rocesses, proc	eaures, task, co	mieni ana p	rocess		
elc.	interface	s to achieve d	complete custon	ner satisfacti	ion, to reduce		
	costs & to	) increase pro	oduct quality.				
	3. PDCA	<b>Cycle</b> = Shew	hart Cycle or I	Demína Whee	el = Plan - Do ·		
	Check - 2	lction					
	Check 5						
	4. Síx Sígma Accuracy means the process is 99.999998%						
	accurate. In other words, the process will/can produce only						
	0.002 defects per million. In quality practice, Six-Sigma means						
	3.4 parts per míllion.						
Control ín	1. Process	5 Definition, 2	2. Database, 4.	Improved de	ecísions, 5.		
ТQМ	3. Quality Manual, Improvement, Control and Continuous						
	and 6. Use of Control Reports						
Tana séasana	The esta	action of Trans	acomment Casta	from a COO	Danaxt		
	The categories of Environment Costs from a COQ Report						
mental Costs	Perspecti	ive is as unde	γ-				
vs COQ	Туре	Preventíon	Appraísal	Internal	External		
		Costs	Costs	Faílure	Faílure		
				Costs	Costs		
	Meaning	preventing	Actívítíes to	Activities	Activities		
			examíne	that have	performed		

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6	adverse	whether	been	after
	ana vírcanna an t	products,	produced	díschargíng
e	al	process and	but not	waste ínto
L L L L L L L L L L L L L L L L L L L	лі	actívítíes,	díscharged	the
i	ímpacts	comply with	ínto the	envíronmen
		envíronment	envíronmen	t.
		al standards,	t.	
		polícíes and		
		laws.		
Example	• Investment	• Monítoríng,	• Recycling	• Cleaníng
s t	in Pollution	testing,	Scrap	ир
	Control	inspection	Dísnosína	contamínate
	Equípment	and reporting	• Disposing off toxíc	d Soíl.
	$\cdot$ Defining	$\cdot$ Improved	materíal	$\cdot$ Restoring
	Envíronment	systems to	• Back-end	Land to its
C	al Policies	prevent fínes/	costs.	natural
		penaltíes		state.
	Envíronment-	• Regulatory		
1	friendly R &	Compliances		
	D	•		
	• Síte &	Contaminatio		
	Feasíbílíty	n Tests		
	Studies	• Audít of		
		Envíronment		
		al Activities		







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### One Day Revísíon Notes - Theory of

#### <mark>Constraínts (TOC)</mark>

Concept	Poínts to Remember
Theory of	1. TA Concept assumes that a Firm has a given set of resources
Constraínts	available (e.g. Buildings, Capital Equipments and Labour
	Force). The Operating Costs of these resources (i.e. Labour and
	Overheads) are consídered as Fíxed Cost.
	2. Using these resources, purchased materials and components
	should be processed to generate Sales Revenue. The Firm has to
	maximise Throughput Contribution (i.e. Sales Less Direct
	Materials), subject to-(a) Production Capacity (Supply
	Constraints), & (b) Sales Demand (Demand Constraints).
Кеу	(1) Throughput, (2) Investment, and (3) Operating Expenses.
Measures	
Bottleneck	Activity within the Firm where the demand for that resource
	is more than its capacity to supply.
Constraínt	Situational Factor, which makes the achievement of
	objectives/throughput more difficult than normal.
	1. Identify System Bottlenecks, i.e. highest TA Ratio =
	$\frac{\text{Resource Requirement}}{\text{Resource Availability}} \times 100.$
Key Steps ín	2. Describe how to exploit the bottlenecks
Bottlenecks	3. Sub-ordinate decisions

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	4. Bottleneck Removal or Improvement - (a) Remove the
	bottleneck, (b) Increase bottleneck efficiency and capacity.
Performance	1. Throughput Accounting (TA) Ratio, i.e.
Evaluatíon	Throughput(i.e.Contribution) per minute Factory Cost per minute
	<b>Note:</b> If TA Ratio > 1, the product is profitable, since Contribution exceeds Operating Costs.
	2. (a) Throughput to Labour Cost = Throughput (b) Throughput to
	$\mathcal{M}aterial\ Cost = \frac{\text{Throughput}}{\text{Material\ Cost}}$

#### <mark>One Day Revísíon Notes - Lean System</mark>

### (New Chapter Introduced)

Concept	Points to Remember
Lean System	1. <b>Meaníng:</b> Lean System ís an organízed method for <b>waste</b>
	mínímízatíon without sacrificing productivity within a
	Manufacturing System.
	2. <i>Features:</i> (a) optimizing work flow through strategic
	operational procedures, (b) minimizing waste,
	(c) eliminate "Non-Value Adding" (NVA) steps & perform only
	"Value Adding" (VA) steps,
	(d) adaptability in the Production System, (e) shift from batch
	and queue to product-aligned pull production, (f) different types
	of operations conducted adjacent to each other in a continuous
	flow.

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Príncíples /	1. Perfect first-time	8. Zero Defects, Zero Breakdowns, Zero		
Objectives of	quality	Accidents		
Lean System	2. Waste Minimization	9. Pull Processing		
	3. Contínuous Improvement	10. Continuous Flow of Production		
	4. Flexibility /	11. Process Time Reduction /		
	Adaptability	Optimisation		
	5. Synchronous Manufacturíng	12. Quality Product/Service		
	6. Zero Waiting Time	13. Optímum Use of Bottleneck Resources		
	7. Zero Inventory	14. Overall Efficiency and Effectiveness		
Techníques	1. Just-ín-Tíme (JIT), 2	Síx Sigma (SS), 3. <b>Kaízen Costíng</b> ,		
of Lean System	4. 5-S (or) 5S, 5. Total Productive Maintenance (TPM), 6. Cellular Manufacturing/ One-Piece Flow Production Systems			
Síx Sígma	1. Sígma: Sígma is a statistical term that measures how far a			
	process deviates from <u>p</u>	perfection. The higher the Sigma		
	Number, the closer the process is to perfection.			
	2. <b>Síx Sígma:</b> Síx-Sígma Accuracy, = Process ís			
	99.99966% accurate, and produces only 3.4 defects per million.			
	This is the structural meaning of Six-Sigma. Six Sigma Concept			
	is based on the fact that it is possible to develop ways of			
	reducing defects by me	asuring the level of defects in a process		
	and discovering the causes.			



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	3. <b>Lean Síx Sígma:</b> It is the combination of Lean and Six Sigma,	
	to achieve areater results that had not been achieved if Lean or	
	Six Siama would have been used individually. It increases the	
	six signal would have been used that and the cuses the	
	speed and effectiveness of any process within the Entity. By	
	using Lean Six Sigma, 'Entities will be able to - (a) 'Maximize	
	Profits, (b) Build Better Teams, (c) Minimize Costs, and (d)	
	Satisfy Customers.	
Features of	1. Highly disciplined process that helps in developing &	
Síx Sígma	delivering near-perfect products and services.	
	2. Strives to meet & improve Firm's goals on Quality, Cost,	
	Scheduling, Manpower, New Products, etc.	
	3. Based on the concept of probability and normal distribution	
	ín statístícs.	
	4. Seeks to ensure that 99.99966% of products manufactured ar	
	defect-free.	
	5. Puts the Customer first and uses facts and data to drive	
	better solutions.	
	6. Full or Total Business Initiative, not merely a quality	
	initiative.	
	7. Seeks to achieve breakthroughs in every area of operation,	
	not merely small marginal improvements.	
	8. Philosophy of management commitment, customer focus,	
	process improvement & rule of measurement.	
	9. Makes every area of the Firm ready to meet changing needs	



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	of customers, markets & technologíes.
Advantages	1. Improved customer satisfaction, and opportunities to retain
of Síx Sígma	customers, 2. Reduction in Cycle Time, 3. Zero Defectives, 4.
	Sígnífícant Cost Savings, 5. Creation of reputation for top
	performing products or services, 6. Gives a new approach to
	thinking, planning and executing. It leads to working smarter,
	not harder, 7. Proactíve Management Team, 8. Better
	Collaboration within the Entity, amongst various Divisions, 9.
	Goal for Perfection.
Límítatíons	1. Focus on specífic type of process only, 2. Focus on quality
of Síx Sígma	only, not Output Quantity, 3. does not work well with
	intangible results, 4. requires substantial infrastructure
	investment, 5. complicated for some tasks, 6. Standards need
	not be met by all products, 7. real time barriers.
Kaízen	1. Ongoing continuous improvement program that focusses on
Costina	waste reduction in the production process, thereby further
Costing	lowering costs below the initial targets specified during design
	phase.
	2. Small but significant cost reductions achieved during
	implementation, due to workers' involvement.
	3. Kaizen Costing is intended to repeat many of the Value
	<i>Engineering steps, continuously and constantly refining the</i>

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	process, thereby eliminating out extra costs at each stage.				
Kaízen	1 It seeks to achieve aradual improvements in the existina				
Costína	situation at an accontable cost				
Derice cire Cos					
Principles	2. It involves setting standards & then improving them, to				
	achieve long-term sustainable improvements.				
	3. It recognises that Improvements are endless, i.e. no limit to				
	the level of improvements that are possible.				
	4. It encourages collective decision-making, and application of				
	knowledge.				
	5. It covers all areas of business, and is not restricted to Shop-				
	Floor only.				
	6. It focusses on eliminating wastes, improving systems and				
	improving productivity.				
5S	<b>1. Concept:</b> 5S is the name of a workplace organization method				
	that uses a list of five Japanese words to explain how a work				
	space should be organized for efficiency & effectiveness by				
	identifying & storing the items used, maintaining the area and				
	ítems, and sustaíning the new order.				
	2. <b>Phases:</b> (a) SORT (Seírí), (b) SET IN ORDER (Seíton), (c)				
	SHINE (Seíso), (d) STANDARDISE (Seíketsu), (e) SUSTAIN				
	(Shítsuke).				

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Total	1. <b>Meaníng:</b> Total Productive Maintenance (TPM) is a system of					
Dres de stásse	maintaining and improving the integrity of production and					
Productive	quality sys	tems. TPM is ach	hieved through th	e Machínes,		
Maíntenanc	Equipment	, Processes, and t	Employees that a	dd to the value in a		
е	Busíness Ei	ıtíty.				
	. 55					
	2. <b>Píllars:</b> I	Yillar-1: Autonom	ious Maíntenance	e, Píllar-2: Focussed		
	Improveme	ent, Píllar-3: Plar	nned Maintenanc	e, Píllar-4: Early		
	Мападете	nt, Píllar-5: Qual	lity Maintenance	, Píllar-6:		
	Education	& Training, Pilla	ır-7: Offíce ТРМ, 1	Píllar-8: Safety,		
	Health, an	Health, and Environment.				
	Toma Come o	<b>πτίος - π΄ΦΔΔ</b> . (-) π	Duran anation (G) To	ture for stiens (s)		
	3. Implementing TPM: (a) Preparation, (b) Introduction, (c)					
	Implement	Implementation, (d) Institutionalization.				
Performanc	OEE = "Ove	rall Equipment :	Effectíveness". OE	TE % = Performance		
e	× Availability × Quality.					
Measureme						
nt ín TPM	Concept Performance Availability Quality					
usína OEE	Formula	Standard Time	Actual Time worked	Output Qtty Accepted		
		Actual Time	Time Available	Output Qtty Produced		
	- ( , (		~			
	Ideal	> 95%	> 90%	> 99%		
	Measure					
Busíness	A Busíness	Process consísts	of a collection of	activities that are		
	linked together in a co-ordinated and sequential manner to					
Process	achieve specified anals and objectives. For example in a bree					
	conso Matorial Handlina Managoment may be taken to					
	sense, maier un standning snandgement may be taken 10					
	$\frac{1}{2}$					
	Processing Purchase Orders, (d) Inspecting Materials, and (e)					

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	Paying Suppliers.
Busíness	1. <i>Meaning:</i> BPR is the fundamental re-thinking and radical re-
Process Re-	design of business processes to achieve dramatic improvements
Engíneeríng	in critical contemporary measures of performance, such as cost,
(BPR)	quality, service, and speed.
	2. <b>Concept:</b> Porter's Value Chain is commonly used in BPR as a
	technique to identify and analyse processes that are of strategic
	significance to the Entity.
	3. <b>Key Components:</b> (a) Fundamental Re-thinking, (b) Radical
	Re-design, (c) Dramatic Improvement, (d) Process Orientation.
	4. <b>Purpose:</b> To improve key Business Processes in a Firm by
	focussing on - (a) Simplification, (b) Cost Reduction, (c)
	Improved Quality, (d) Enhanced Customer Satisfaction, (e)
	Operational Excellence, (f) Competitive Advantage, i.e. <b>"how</b> to
	compete".
	5. Stages: (a) Process Identification, (b) Process Rationalisation,
	(c) Process Re-Desígn, (d) Process Re-Assembly.
	6. <b>Príncíples:</b> (a) Focus on "Outcomes" and not on tasks, (b)
	Single Point Data Capture, (c) Link the persons performing the
	process, to the results expected, (d) Integrate Information with
	Work Process, (e) Centralise Activities to achieve economies, (f)
	Line Parallel Activities instead of integrating their results, (g)
	Decision Point is where the work is performed, but build
	controls.

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# One Day Revísíon Notes - Just ín Tíme

# (JIT) – Important for Practical Questions

for May 2018 - Refer PM Q. No.31, 32, 33 &

## <mark>34 – Old Course PM Chapter 1)</mark>

Concept	Poínts to Remember		
JIT-Concept	1. JIT: (a) A System whose objective is to produce or procure		
	products or components as they are <b>required</b> by a Customer or		
	for use, rather than for Stock, (b) A <b>Pull System</b> which		
	responds to demand, in contrast to a Push System, in which		
	stocks acts as buffers between the different elements of the		
	system such as purchasing, production and sales.		
	2. JIT Production: Production System which is driven by		
	demand for Finished Products, whereby each component on a		
	Production Line is produced <b>only when needed</b> for the next		
	stage.		
	3. JIT Purchasing: Purchasing System in which Material		
	Purchases are contracted such that the <b>receipt</b> and <b>usage</b> of		
	material, <b>coincide,</b> to the maximum possible extent.		
JIT ín WIP	1. Affects Cost - (a) Píling up of WIP Inventory, (b) Delayed		
	Tracing of Defectives		
	2. Ways to Resolve - (a) Kanban Card, (b) Working Cells		

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JIT —	1. Waste Reduction,	4. Zero		7. Economícal Batch	
Objectives	2. Time Reduction,	Inventory,		Sízes,	
	3. Elimination of	5. Zero De	efects,	8. Product Quality,	
	NVA activities,	6. Zero Br	reak-	9. Tímely delívery to	
		downs,		Customer.	
JIT - Benefíts	1. Reduction in Inver	itory	3. Red	uction in Scrap Rates,	
	Levels,		4. Red	fuction in OH Costs	
	2. Reduction in Wast	age of			
	Time,				
JIT - Tíme	1. Storage Tíme, 3. Handling Tíme,			ıdling Time,	
Reduction	2. Inspection Time,		4. Queue Time		
JIT Effect on	1. Thorough reduction in Overhead Costs,				
ОН	2. Shift between Overhead Costs and Direct Costs, due to				
	introduction of Machine Cells, and				
	3. Scientific Allocation of common Overheads based on				
	Machine Cells and Cost Drivers.				
JIT Other	1. Lower Inventories and Associated Costs.				
Effects	2. Better Product Prícíng (Customers' Needs and Competitors'				
	Effect)				
	3. Reduced Capital Requirements.				
Performance	1. Inventory	4. Scrap,		6. Customer Servíce,	
Measurement	Turnover,	5. Cost of Quality, 7. Ideas generated			



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Crítería	2. Setup Tíme		
	Reduction,		
	3. Customer		
	Complaints,		
Backflushing	1. <b>Meaníng:</b> Backflusl	ñ Costíng ís a costíng	system that omíts
(Q. No.34 of	recording some or all of the journal entries relating to the		
PM – Old	cycle from purchase of Direct Materials to the sale of Finished		
Course	Goods. The Journal Entries for the subsequent stages use		
Chapter 1)	normal or standard costs to work backward to flush out the		
	costs in the cycle for which Journal Entries were omitted		
	earlier.		
	2. <b>Issues:</b> (a) Production Reporting, (b) Scrap Reporting, (c) Lot		
	Tracing, (d) Inventory Accuracy.		

