

Valid for September 2024, December 2024, March 2025 and June 2025 exam sittings





Steve Crossman CEO The ExP Group

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We were born with with one desire. To technology to open up should be used. articular financial education, education, and to whoever nee it regardless of their income,

als to develop themselves through individa financial expertise, organisations to improve their performance through enhanced human to benefit as a result.

had the privilege of working with and learning from inspirational individuals and organisations Islands in the west.

we're doing better than we expected. The best

Thank you for being part of our story.

# Specialist Cost & Management Accounting Techniques

# Key Knowledge – Activity Based

Sting Hee full eBook ABC is a method that seeks to group overhead costs according to the activities causing those costs. The activities giving rise to the costs are called "cost drivers". By linking costs to activities (cost drivers), it becomes possible to charge costs to the agents undertaking these activities.

# Example

500,000 A factory clinic with total annual costs serves two Workshops A and B. Workshop A has 200 employees and Works b Åas 300 employees.

A conventional way of apportioning the t would be on the basis of employees:

Workshop A: (200/500) x (200,000 = 200,000 Workshop B: (300/500) 500,000 = <u>300,000</u> 500,000

An ABC approach mig bok at the number of visits to the clinic by the employees of A and B.

Workshop 50 visits p.a. B: 70 visits p.a.

In this case, the apportionment could be:

Workshop A: (150/220) x 500,000 = 340,909 Workshop B: (70/220) x 500,000 = <u>159,091</u> 500,000

The different levels of usage may reflect different degrees of occupational hazard present in the two workshops.

ABC advantages: provides a more precise way to determine costs per unit of output, especially since not all overhead costs are driven by production volumes.

Budgetary planning, pricing decisions and managing performance are all facilitated by ABC.

ABC disadvantages: it can be complex and costly to implement. It is not a "plug-in-and-go" system! It is therefore imperative that management carefully weigh the costs against the (expected) benefits from ABC before deciding to implement it.

# Key Knowledge – Target Costing

This is a market-oriented approach to costing that starts by identifying the likely price that a prefetch in the market, deducts the profit that the product is expected to earn, and arrives at the aximum (target) cost of manufacturing the product.

Such a method usually requires successive iterations in order to close a "cost gap" iteration are above the targeted level. Product re-design, alternative materials and production processes are where the costs OUTFREE examined in order to achieve the desired level of costs.

# Key Knowledge – Life Cycle Co

A product normally "lives" beyond one accounting period and the costs connected to its development/design, launch and maintenance fall inevenly arross time periods. This method takes a comprehensive view of the costs relating to the product throughout its life-cycle.

# **Key Knowledge**

This method is consistent with a transforment and focuses on the bottlenecks in a production process; by eliminating these bottlenecks, traises the amount of output that can flow through the process (assuming there is demand for ne output – the idea is not to produce for inventory!).

The throughput accounting approach itself considers all costs (including direct labour) as fixed and treats only direct materials as the yariable in the short term. Throughput means revenue less material costs.

The throughput accounting ratio is calculated as:  $\frac{Return \ per \ factory \ hour}{Cost \ per \ factory \ hour}$ 

Where: Return paractory hour =  $\frac{1100 \text{ agent} - 1}{\text{Time on bottleneck process per unit}}$ Throughput per unit

Cost per factory hour =  $\frac{1}{Total bottleneck resource time avaialable}$ Total factory costs

# **Decision Making Techniques**

 The Big Picture
 Hull be the short-run based

 One of management's responsibilities involves making decision affecting the firm in the short-run based on relevant costs.
 Hull be the short-run based

 What is relevance?
 Hull be the short of the

## Example



A company seeking to determine w continue to transport its products by truck or to switch to nether the railroad discovers that insuran ercents are identical in both choices; in that case, insurance costs are not relevant to the decision.

If, however, there is a difference in the two insurance costs, then one can speak of the difference between the two choices as being "incremental"; this difference (referred to in some places as the "differential") is relevant to the decision under consideration.

Future

Relevant correctively by choice. It follows that:

Sunk costs are not relevant: They have already taken place and cannot be reversed.

Committed costs, if they cannot be avoided, are likewise not relevant, even if the timing of their occurrence is in the future. Their "unavoidability" has already been established in the past (making them effectively the equivalent of sunk costs).

In keeping with the above logic, relevant costs therefore involve cash, are incremental and relate to the future.

Relevant costs need to be identified with care, as they may include opportunity costs.

# Example

A company considers building a storage facility on the site of a parking lot. If the parking lot had been generating parking fees that will now be lost, then this foregone revenue is an opportunity cost.

# Key Knowledge – Break Even Analysis



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- Safety Margin = Budgeted Sales Break-even point (units/dollars)
- C is an important indicator, as it shows the contribution of each unit sold towards covering fixed costs. Therefore, in the short run, the firm may prefer to produce/sell below break-even in order to recover some of its fixed costs.

Relevant costs, incremental analysis and linear programming

- Relevant costs are costs expected to vary with the action taken
  - Past (sunk) costs are irrelevant
  - Fixed costs are irrelevant if there is idle capacity
  - Variable (marginal) costs are relevant
- Opportunity costs (foregone benefits) are relevant
   Incremental analysis uses relevant costs in order to quantify the short-term effects of b decisions taken.
   Incremental analysis in business decision-making
   Accept or reject a special order
   Occept if selling price exceeds variable production protection in the state of the second state.

Applying incremental analysis in business decision-making

- - st and there is spare capacity
- Make (in-sourcing) or buy (out-sourcing)
  - Outsource least efficient activities if full
- Capital budgeting
  - Invest if marginal cost of investing inal cost of not investing (marginal below m benefit foregone)
- Disinvestment
  - Divest if (marginal reve • cost of resulting idle capacity + severance payments + restora below marginal cost of production + salvage value of assets

### **Factor Decisions Key Knowled**

Determining optimal mix of poducts where there is one limiting factor

- Calculate contribution per unit generated by each product. 1.
- Identify the number of units (kg/litres) of the limited factor used by each product. 2.
- (1)  $\div$  (2) Contribution per unit of limited factor generated by each product. 3.
- product with highest contribution per unit of limited factor first, up to maximum demand, 4. then produce product with second highest, etc. until all the limited factor is used up.

Determining optimal mix of products where there is more than one limiting factor

Use linear programming:

1. Define variables (Let X = output of product 1, Y = output of product 2)

2. Define objective function: (This expresses total contribution). Y = mX + nY (where m = contribution) per unit for X and n =contribution per unit for Y).

3. Define constraints: Shows maximum use of each limited resource – (e.g.  $3X + 4Y \le 4,000$  would be a constraint where each unit of X uses 3 units of the resource and each unit of Y used 4 units of the resource, and the resource is limited to 4,000 units per period).

4. Draw diagrams of all the constraints and plot the objective function for one value of contribution. Point of maximum contribution is where a line parallel to the contribution line is within the feasible region bounded by all the constraints, e.g. here the point of maximum contribution will be one of the corner points, A, B, C or D.



PED = <u>% ckinge in demand</u> Change in price

# Example

A cinema increases its ticket prices from \$4 to \$6; as a result, the number of cinema goers drops from 2,000 to 1,500.

The PED =  $(\frac{500/2000}{(2/4)}) = 25\frac{\%}{50\%} = 0.5$  (Note: Ignore + or – signs; take the absolute value) (2/4) 50%

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In the above example, demand is considered inelastic, because the PED < 1. When PED > 1, then demand is considered elastic.

## Key Knowledge – Demand Equation

Whereas the PED is expressed in percentages, the demand equation (or function) is portrayed as a downward sloping straight line which shows price and demand combinations in their full values. The equation is expressed as

P = a - bO

Where:

P = price - corresponding to the dependent variable (y-axis) on a graph;

FULLEBOOK Q = (Quantity) demanded – corresponding to the independent variable (x-axis);

# a = the maximum price (where Q = 0) -- corresponding to the y-intercept; and b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-sloping) line (change in P / change in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of the (negatively-slope in Q) b = the slope of th ress notes

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## Example

On an average Saturday night, a cinema (capacity: 225) attracts 150 visitors at a price of \$5. If the price of the ticket is decreased by \$0.50 then 25 more people will come.

In order to fill up the cinema, the ticket price would have to be set at:

 $5 = a - (0.50/25) \times 150$ ; therefore, a = 8, and

$$Y = aX + b$$

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$$Y = $5,000 + ($0,10) \times 20,000$$

# = \$7,000

When working with bulk discounts and other sales volumes, it is important to make sure that fixed costs remain unchanged over the output range covered. If they increase (as a result of expanding the production capacity, for example) then the new (higher) level of fixed costs need to be included in the calculation of total costs.

# Key Knowledge – Pricing Strategy

There is a variety of pricing strategies with which one should be familiar:

Cost plus: A mark-up is added to a given cost base (which can be variable or full production cost).

Skimming: Enter the market at a high price to catch customers willing and able to pay the price.

Penetration pricing: Go in at a very low price to win market share.

Premium pricing: Maintain a high price due to the nature of the product.

Target pricing: This method "backs into" the price by calculating the required profit and the possible production costs first.

Promotional Pricing: These are in support of campaigns to raise customer awareness of a product

Perceived value pricing: Plays on perception of value and what the market is willing to pay

Value Pricing: Increasing the value content of the product so as to defend market share (in times of difficult economic conditions or competition).

Product-line pricing: Sell a "core" product cheaply and price high related product?

Volume-discounting pricing: The bigger the order, the lower the order the per the

Discriminatory pricing: Pricing the same product at different markets in other and the same product at different markets (geographical) or market segments (customers).

Psychological Pricing: Plays on the emotion of the consume C

Product Bundle Pricing: Combining products to one pact and pricing it overall.

Complementary product pricing: This refers to products that are used in conjunction with other products (e.g. printers and cartridges, razor prosend blacks, staplers and staples, automobiles and spare parts). Typically, the approach to pricing have be low to the main product and more expensive for the "re-fills".

Relevant cost pricing: Basing the price keen (accurate) understanding of the real costs of the product or service.

Make-Buy

A make-buy decision requires the determination of all relevant costs.

# Example

An automotive components producer can supply itself externally with car heaters for \$210 per unit. In considering whether to make these internally, the company calculates that an equivalent unit can be made in 2 abour hours using \$100 worth of materials.

Labour is currently at full capacity producing carburettors which generate contribution of \$100. A carburettor takes 2.5 hours to produce. Labour costs \$10 per hour. The carburettor also absorbs fixed overhead costs at the rate of \$20 per labour hour.

The relevant costs are (\$):

Materials: 100