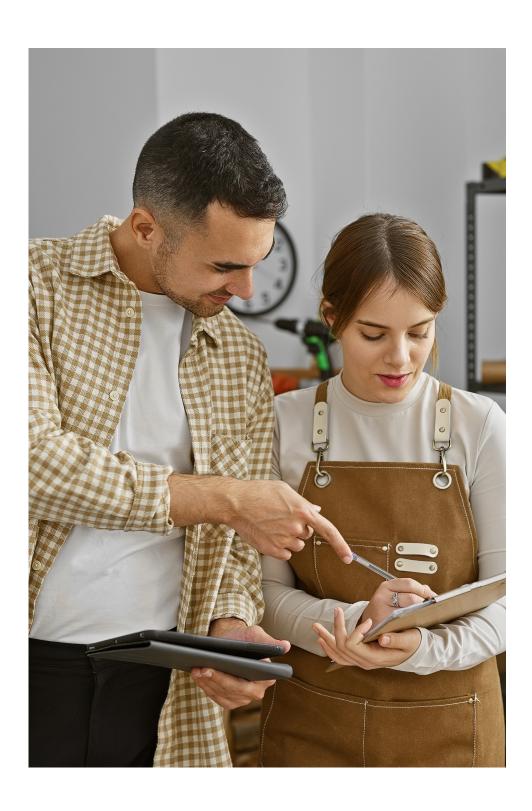
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Fundamentals of cost accounting and environmental management accounting



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This free course is an adapted extract from the Open University course B253 and related to the Open University qualification BSc (Honours) Accounting and Finance

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Contents

Introduction	6
Learning outcomes	8
1 Cost classification	9
1.1 Variable and fixed costs	10
1.2 Other ways of classifying costs	13
1.3 Cost centre, cost object and centres	13
2 Cost behaviour	15
2.1 Calculating the unit cost	16
2.2 Stepped fixed costs	18
3 Determining fixed versus variable costs	19
3.1 The high–low method	19
3.2 Assessing costs using a scatter graph	20
4 Direct and indirect costs	22
4.1 Direct/indirect and fixed/variable costs	24
5 Why organisations need to know the costs of products, processes and services	26
6 Why organisations need costing systems	27
6.1 Calculating profit	28
7 Cost information	31
8 The nature of production costs: materials, labour and overheads	32
8.1 Materials	32
8.2 Labour costs	32
8.3 Overhead costs: production and non-production	33
8.4 Direct and indirect production costs	34
9 Environmental management accounting	36
9.1 The Sustainable Development Goals	37
9.2 Why sustainability is important to organisations	37
9.3 Why should a management accountant care about environmental issues?	38
9.4 EMA process	39
9.5 EMA techniques	40
9.6 Understanding environmental management accounting and traditional management accounting	42
Summary	45
References	46
Acknowledgements	47
Glossary	47

Introduction 19/11/25

Introduction

This course is designed to provide you with a solid understanding of the principles and practices of cost accounting.



Figure 1

Cost accounting enables managers to understand the true costs of products, services and processes in order to help them make informed decisions, control costs and improve the overall performance of the organisation. Throughout this course, you will explore various aspects of cost accounting. You will learn that to distinguish between fixed costs and variable costs allows for a range of important decisions in any business. An understanding of basic cost behaviour is essential to the work of management accountants. This course will cover the foundations of cost accounting and your ability to apply this knowledge.

In the final section you will look at the concept of environmental management accounting and analyse the impact of environmental costs and their implications for management accounting.

To help you plan your studies, this table outlines the activities you will be working on in this course. Please note that you will also need to allow time for reading the linked material and reflecting on what you have learned. To help you manage your workload, the approximate time to complete each activity is provided.

Table 1 Course activities breakdown

	Activity	Description	Duration
	Activity 1 Cost classifications	Answer the questions	10 minutes
*	Activity 2 Cost changes	Answer the question	5 minutes

Introduction 19/11/25

+v= ==	Activity 3 Calculation of the unit cost	Calculate unit cost	15 minutes
	Activity 4 Direct or indirect costs	Answer the questions	5 minutes
圉	Activity 5 Direct or indirect costs – Nancy's jewellery	Answer the questions	5 minutes
*	Activity 6 Decision-making information	Answer the questions	15 minutes
*	Activity 7 Performance information	Answer the question	5 minutes
*	Activity 8 Cost classification activity	Answer the question	5 minutes
9	Activity 9 Internal and external pressures on organisations to be sustainable	Share your thoughts	20 minutes
e	Activity 10 The role of EMA	Vote in the poll	10 minutes
ಈ	Activity 11 Understanding and applying environmental management accounting	Read and write a definition	15 minutes
B	Activity 12 Drawbacks of traditional management accounting	Answer the questions	15 minutes

This free course is an adapted extract from the Open University course B253 and related to the Open University qualification BSc (Honours) Accounting and Finance.

Learning outcomes 19/11/25

Learning outcomes

By the end of this course you will be able to:

 describe how fixed, variable, stepped fixed and semi-variable costs behave and interpret cost-behaviour graphs

- explain why classifying costs as direct or indirect supports planning and decisions, and why organisations must know the costs of products, processes and services
- distinguish cost objects, units and centres, and outline production costs: materials, labour and overheads
- explain non-production costs, apply environmental management accounting and analyse environmental cost impacts.

1 Cost classification

An important role of management accounting in most organisations is providing managers with information about the cost of making each particular product or, in the case of a service organisation, providing each particular service. Managers need product cost information for a number of reasons, including:

- establishing selling prices
- determining product (or service) profitability
- cost management
- valuing inventory for financial accounting purposes.

This need for cost information raises the fundamental question: what constitutes a cost? Costs can be defined as the expenses incurred by a company in order to purchase goods, produce products, provide services, pay staff or perform repairs. These expenses are quantifiable in monetary terms. However, there are also costs that cannot be measured monetarily, known as external costs or externalities. Externalities refer to the impact a company has on parties outside the organisation that did not participate or agree to the activities causing the impact. For instance, the construction of a big manufacturing unit may cause displacement of the local community. The people affected by the displacement are not the buyers or sellers of the manufacturing unit's services or products, but the impact on their lives cannot be measured monetarily. The construction of this unit may also contribute to the depletion of the natural resources and biodiversity within the region - these are also examples of externalities. While externalities such as these are significant, management accountants have historically concentrated on costs that can be quantified. However, with increasing attention on the need for companies to be more socially and environmentally responsible, the focus of management accounting is changing.

Knowing the cost of a product is essential for any business. It helps to ensure that the price covers all the expenses associated with producing and selling the product, while also generating a profit. Having accurate cost information can also help in making informed business decisions, such as identifying areas for cost savings, setting the right price, improving efficiency and increasing profitability. This course defines 'product' in a broad sense and can refer to both tangible goods and services.

Costs can be classified in several ways. The principal classifications are:

- variable and fixed
- direct and indirect.

The classification into **variable costs** and **fixed costs** is used in marginal costing (a costing approach in which variable costs are charged to product units and fixed costs are charged against profit as a period expense – that is, not charged to specific units of output or activity). Figure 2 shows the difference between fixed and variable costs.

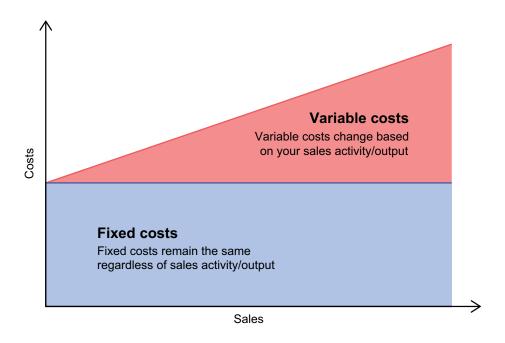


Figure 2 Fixed and variable costs (The Open University, adapted from Oberlo)

The classification into **direct costs** and **indirect costs** is used in **absorption costing** (a costing approach that charges both direct costs and indirect costs – and, crucially, fixed and variable costs – to units of output or activity).

There are other ways of classifying costs, such as distinguishing between actual cost and standard cost or controllable cost and non-controllable cost. These classifications are relevant in standard costing and budgetary control.

1.1 Variable and fixed costs

The distinction between variable and fixed costs is the basis of marginal costing. Once the variable and fixed costs are known for marginal costing, we can work out the marginal cost of a unit of output at any level of activity within the so-called **relevant cost range**. When we cannot accurately predict the future level of activity (which happens often), this classification of costs gives us a powerful management tool for evaluating results under different levels of activity.

Variable costs are directly proportional to the level of activity or output. Total variable costs are costs that change as the quantity of the good or service that a business produces changes.

For example, if activity doubles, the total variable cost also doubles; if activity trebles, the variable cost trebles. This assumes that, at unit level over a set range, the unit variable cost does not change.

In the case of a car factory, variable costs include raw materials, labour costs and direct production expenses – such as the engine, tyres, plastics and so on. Importantly, some indirect costs are also variable – for example electric power to drive the machinery and

consumable materials such as lubricants. Variable costs are sometimes referred to as the marginal costs.

An important concept in connection with variable costs is contribution, which is an abbreviation of the phrase 'contribution towards fixed costs'. It refers to the difference between the cost of sales that varies with production volume and the revenue generated – i.e. sales minus variable cost. Essentially, it is a measure of how much each unit of production or sales contributes to covering the fixed costs of a business. Contribution can be calculated per unit or aggregated for all production, providing valuable information for decision making and cost control.

Fixed costs are costs that remain constant, regardless of the level of activity or output.

Fixed costs are any other costs that are not variable. They are, in essence, a function of time, not of activity level or volume of output. They are the costs that would be incurred even if activity is zero. In a car factory, fixed costs include the rent, depreciation of equipment, management salaries, property taxes and so on.

In summary, total variable costs vary with changes in activity level, while fixed costs remain constant. Understanding the distinction between these two types of costs helps businesses make informed decisions about their production and cost management strategies. However, it is important to note that this holds true within a specific range called the 'relevant range'. Fixed costs remain fixed within this range of output, beyond which they change. Similarly, variable costs per unit remain constant within the relevant range, after which they change (for example due to economies of scale, quantity discounts etc).

You will now consider these ideas in an activity.

Activity 1 Cost classifications



(1) Allow around 10 minutes for this activity

In an accounting practice, which of the following costs are variable and which are fixed?

Select the correct answer in each instance.

- (a) an annual software licence fee for use of accounting software throughout the practice
- o fixed cost
- variable cost

Answer

- (a) A software licence of this type is a fixed cost. It will only change if the level of activity shifts outside the relevant range. For example, if the licence fee covers five computers, it would only change if the practice grew and needed more.
- (b) advertising
- fixed cost

variable cost

Answer

- (b) Advertising is usually regarded as fixed, but you must consider the circumstances. Do we need to say what the circumstances are? This is because advertising expenditure usually arises 'upfront' as a result of a management decision, rather than being determined in a 'cause and effect' manner by units produced or sold.
- (c) telephone bills
- o fixed cost
- variable cost

Answer

- (c) Most telephone bills can be divided into a fixed rental component and a variable usage element. The rental is clearly fixed and, if the usage is related to activity in an accounting practice, the usage is variable. Where calls cannot be traced to individual clients, they are normally treated as costs of the period that is, they would be treated in the same way as fixed costs are treated.
- (d) secretaries' salaries
- fixed cost
- variable cost

Answer

- (d) Secretaries' salaries are a fixed cost.
- (e) wages paid to the office cleaners
- o fixed cost
- o variable cost

Answer

- (e) The wages paid for office cleaning are normally treated as fixed unless there is a direct link between activity in the accounting practice and cleaning the office.
- (f) 10% commission paid on sales
- o fixed cost
- o variable cost

Answer

(f) Commission paid on sales is generally classified as a variable cost since it directly depends on the number of sales made by the company. As commission is typically calculated as a percentage of the sales revenue, it varies proportionately with the level of sales activity. When more sales are generated, the commission expense increases accordingly. Therefore, commission paid on sales is considered a variable cost as it fluctuates in relation to the company's sales performance.

1.2 Other ways of classifying costs

In addition to the principal classifications of variable and fixed, we can identify several other classifications for costs, as outlined below.

Table 2 Cost classifications

By nature	This would include material or labour. Classifying costs by nature can also be termed subjective classification.
By purpose	Direct or indirect. We will explore this further in this course. Classifying costs by purpose can also be termed objective classification.
By function	For example, production, administration or selling.
By how it behaves	Fixed, variable, semi-variable, stepped fixed.
Normal/abnormal	This considers whether unusual events have influenced costs.
Controllable/non- controllable	This is concerned with whether the manager, within whose area of the organisation a cost is incurred, can influence the cost.
Relevant/irrelevant	This distinction is used in decision making. Relevant costs are considered when making a decision, as they have a direct impact on the decision outcome. Irrelevant costs do not have an impact on the decision and are therefore not taken into consideration.

1.3 Cost centre, cost object and centres

Cost centre is the term used to describe where in an organisation costs are gathered and then attributed to the units of output. Normally, cost centres consist of departments, but a cost centre can also be a project. A **cost object** refers to any thing or activity for which a separate measurement of costs is desired. An example of a cost object would be the cost of rendering a service to a hospital patient. Other examples would include the cost of a product, the cost of a process or a department.

Cost objects and cost centres are a fundamental component of a cost accounting system. They serve as the basis for:

- Classifying actual costs incurred.
- Preparing budgets for planned costs.
- Comparing actual costs with budgeted costs (for management control purposes).

In addition to cost centres, there are several other types of centres:

- responsibility centres
- profit centres
- revenue centres.

You can read more about the types of centre in the interactive figure below.

Interactive content is not available in this format.



Interactive Figure 1 Types of centre

2 Cost behaviour 19/11/25

2 Cost behaviour

An understanding of how costs vary with different levels of activity is essential for decision making. Figure 3 shows the pattern of costs in relation to the volume of activity, based on the information shown in Table 3 for a period. The level of activity can be expressed in terms of the units of production or the level of service activity.

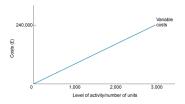


Figure 3 Variable costs

The table below shows the variable costs at the maximum output and the fixed costs of the company.

Table 3 Variable and fixed costs for a period

Variable costs per unit	£80
Maximum output in the period	3,000 units
Variable costs (at maximum output)	£240,000
Fixed costs	£100,000

We can calculate variable cost (VC) per unit as follows:

Maximum output in period = 3,000 units

VC at maximum output = £240,000

VC per unit = £240,000/3,000 = £80 (assuming fixed costs remain constant at £100,000) The relevant range for which these relationships hold is 0-3,000 units.

Note how the variable costs are proportional to the level of activity and how they are

always zero when the level of activity is zero.

Note also how the fixed costs remain constant at all levels of activity within the relevant range (Figure 4).

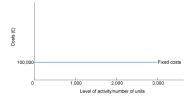


Figure 4 Fixed costs

The two graphs can be combined to show total costs (Figure 5).

2 Cost behaviour 19/11/25

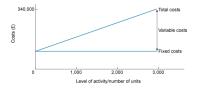


Figure 5 Total costs

At a production level of 3,000 units, the total cost is £340,000, resulting in a unit cost of £113.33. If the production level was 1,800 units, the total cost would be £244,000 (fixed costs of £100,000 plus variable costs of £144,000) and the resulting unit cost would be £135.56. As the volume of activity declines, the unit cost increases. Conversely, as the volume of activity increases, the unit cost decreases.

Activity 2 Cost changes



(1) Allow around 5 minutes for this activity

Look again at the figures above and explain why the unit cost changes.

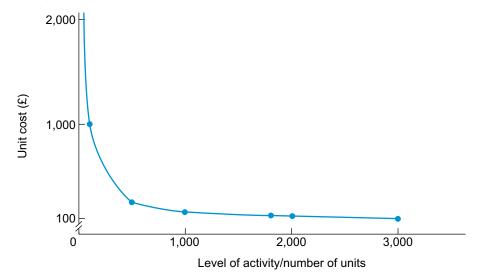
Provide your answer...

Feedback

The reason is that, with reducing volumes, each unit has to bear proportionately more of the fixed costs and, with increasing output, proportionately less of the fixed costs.

2.1 Calculating the unit cost

Continuing with the example from Section 2, the changing unit cost of production is shown in Figure 6.



2 Cost behaviour 19/11/25

Figure 6 The changing cost per unit as the level of activity changes

To calculate the unit cost, divide the total of fixed costs and variable costs by the number of units produced. An example is given in Activity 3.

Activity 3 Calculation of the unit cost



(1) Allow around 15 minutes for this activity

Using the following information for a period, calculate the unit cost at production levels of 2,000, 4,000 and 5,000 units of output. You can use this spreadsheet to complete this activity.

Table 4

Fixed costs	£264,000
Variable costs per unit	£279

Feedback

Table 5

Production levels	2,000 units	4,000 units	5,000 units
	£	£	£
Variable cost per unit	279	279	279
Total variable costs	558,000	1,116,000	1,395,000
Fixed costs	264,000	264,000	264,000
Total costs	822,000	1,380,000	1,659,000
Divide total costs by no. units	2,000 units	4,000 units	5,000 units
Unit cost	= £411	= £345	= £331.80

It is important to bear in mind that both fixed and variable costs may only behave in this way over a relevant range. For example, within the relevant range (see Figure 7), unit variable costs are assumed to be constant. Beyond this range, they are not. (This could be due to bulk discounts in purchasing materials, for example.) In Figure 7, variable costs (per unit) are only constant between 600 and 1,200 units.

2 Cost behaviour 19/11/25

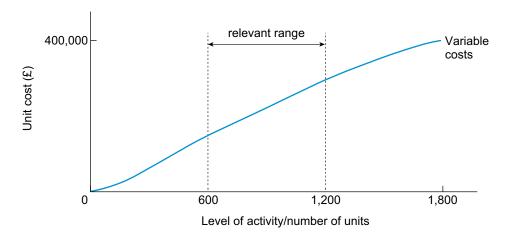


Figure 7 The relevant range

The relevant range in Figure 7 refers to a specific activity level that is bounded by a minimum and maximum amount. Within the designated boundaries, certain cost levels can be expected to occur. Outside that relevant range, costs will likely differ from the expected amount.

2.2 Stepped fixed costs

Fixed costs are often only fixed within a range of activity levels, i.e. the relevant range. Fixed costs are often assumed to be fixed whatever the level of activity, but they do change. The term used to describe the concept of change in fixed costs is 'stepped costs'. These can be described as being constant within a specified range of output but changing when outside this range, as illustrated in Figure 8, where above 2,000 units a new level of fixed costs is reached.

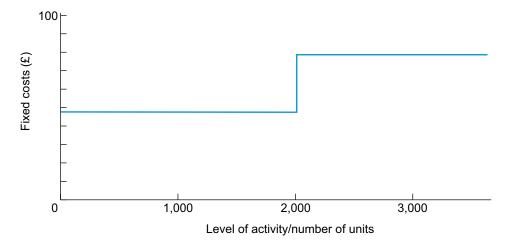


Figure 8 Stepped fixed costs

The concept of stepped costs can be illustrated by an accounting practice. For a given level of clients, the practice can cope with the current number of accountants, but at a certain level of activity, the pressures of work will mean an additional accountant needs to be employed. If on a full-time contract, this extra accountant would be a stepped cost – that is, an increased fixed cost. (If an accountant could be employed on a casual, part-time basis, this would resemble more closely a variable cost.)

3 Determining fixed versus variable costs

The material, labour and machine resources needed to make a unit of a particular product (or provide a unit of a particular service) could be measured and then divided over the units to be produced, to give a unit variable cost. However, in practice things are not always as simple as that as many costs are semi-variable, with both variable and fixed components. Despite this complication, many planning and decision-making activities require an understanding of how costs change as the level of output changes. This requires separating costs into their fixed and variable elements.

There are a number of techniques, of varying degrees of sophistication, available to management for estimating fixed and variable costs, but you should always bear in mind that greater and greater levels of accuracy are usually more expensive to attain. Such levels of accuracy may also take longer to achieve because of the amount of information that has to be processed.

Organisations must always keep in mind that information has a cost and that it is pointless to have more detail and accuracy than necessary. The following subsections describe two techniques that could be applied for the purpose of estimating fixed and variable costs.

3.1 The high-low method

The high–low method is a technique for splitting mixed costs into their fixed and variable elements. It is simple and quick but will often not be very accurate. Suppose a business had recorded the following costs for electricity relative to units of production from the factory.

Table 6 Electricity costs relative to units of production

	Electricity cost (£)	Units made
January	10,000	11,000
February	15,000	20,000
March	12,000	13,000
April	9,000	10,000
May	10,000	11,000
June	11,000	12,000
July	14,000	18,000
August	13,000	17,000
September	12,000	13,000
October	11,000	11,000
November	11,000	12,000
December	12,000	14,000

First, identify the periods with the highest and lowest production – here, the months of February and April.

Table 7 Periods with the highest and lowest production

	Units	£
High	20,000	15,000
Low	10,000	9,000

You can see that these costs are not purely variable otherwise they would double as the output doubles.

You can now assume that the increase in costs must arise from the variable part of the costs. So, the extra 10,000 units cause the additional costs of £6,000. This implies variable costs of £0.60 per unit.

If the variable costs are £0.60 per unit, 10,000 units would cause £6,000 total variable costs. At this output, the total costs are £9,000, so the fixed costs must amount to £3,000. You can check the fixed costs by looking at the output levels chosen. At 20,000 units, variable costs would be £12,000. As total costs are £15,000, fixed costs must be £3,000, as before.

3.2 Assessing costs using a scatter graph

Scatter graphs plot data points on a graph and are useful as another means of examining the relationship between fixed and variable costs. By drawing in the line of best fit, which plots a line which best fits the spread of the data, we are, in effect, setting out the total cost line, as in Figure 9. This meets the vertical axis at an activity level of zero, so the total costs at that point must be the fixed costs. It follows that if we take the total costs at a particular level of activity, deduct the fixed costs and divide the resulting answer by the level of activity, we arrive at the variable cost per unit.

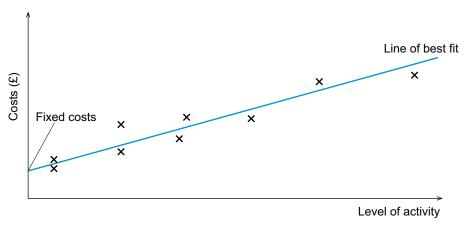


Figure 9 Using a scatter graph to find the line of best fit

A scatter graph is a useful visual insight into the relationship between fixed and variable costs and, indeed, can be regarded as superior to the high–low method, which uses only two data points. However, remember that it is only a guide to the relationship: ultimately, the precise answer can only be calculated by a detailed analysis of the cost data such as by regression analysis, which was covered in B126.

Now that you have explored cost behaviour in terms of fixed and variable costs, you will look at the notion of direct versus indirect costs.

4 Direct and indirect costs 19/11/25

4 Direct and indirect costs

Cost can be divided into two broad categories: direct costs and indirect costs. This distinction is important and forms the basis of absorption costing. The following definitions are attributed to Horngren et al. (1999).

Direct costs are all costs that can be directly attributed to a cost object and that can be traced to it in an economically feasible (cost-effective) way. A cost object is defined as anything for which a separate measurement of costs is desired.

For instance, in an analysis of sales regions, the salaries, commissions and expenses of sales personnel working exclusively in one territory constitute direct costs of that territory.

Indirect costs are all costs that cannot be directly traced to a cost object in an economically feasible way. Indirect costs are allocated to the cost object using a cost allocation method.

The narrower a cost object is (e.g. a customer or a product line), the greater will be the proportion of costs that are indirect, whereas the more broadly based a cost object is (e.g. a sales territory), the greater will be the proportion of costs that can be traced directly to it. It should be noted, however, that direct costs can be fixed or variable in nature (as can indirect costs), so directness should not be linked in any general way with variable costs alone, whether in a marketing setting or in any other instance.

Horngren et al. (1999, p. 32) give the example of a tennis racket as a cost object. The cost of the carbon fibre used to make the racket is a direct cost because it can be easily traced to the racket. However, the cost of lighting in the factory where the racket is made will be an indirect cost. This is because, although lighting helped in the manufacture of the racket (the workers needed to see), it is not cost-effective to try to determine exactly how much lighting cost was used for a specific racket.

Whether a cost is direct or indirect depends on the cost object. Indirect costs are also known as overheads.

Activity 4 Direct or indirect costs



(1) Allow around 5 minutes for this activity

The following list shows typical costs for a customised sports car manufacturer. Decide whether the following costs are direct or indirect.

Select the correct answer in each instance.

- a. component parts
- direct cost
- indirect cost

4 Direct and indirect costs 19/11/25

Answer

a. Component parts are clearly a direct cost of production and are variable – double the output and you double the number of components used. Each component can be directly identified with a unit of output.

- b. production labour
- direct cost
- o indirect cost

Answer

- b. Similarly, production labour can be directly traced to particular products. However, it is important to recognise that, while the component parts are directly related to output and their costs are, in fact, variable, this is not necessarily the case with production labour. If the production line stops, the production operatives' wages still have to be paid. However, this in no way changes the nature of these wages. They are a direct cost incurred making a particular product.
- c. depreciation of manufacturing equipment
- direct cost
- indirect cost

Answer

c. Depreciation of manufacturing equipment is an indirect production cost. Manufacturing equipment also depreciates, for example, through the passing of time or through obsolescence, as new, better equipment will come on to the market.

As you can see from these examples, it is necessary to remember that we are considering whether costs are direct or indirect relative to a particular product. Hence, component parts and production labour are directly linked to the particular product in contrast to depreciation, which is not so related.

Activity 5 Direct or indirect costs - Nancy's jewellery



(1) Allow around 5 minutes for this activity

Nancy runs a design and assembly workshop for jewellery. She employs various craftspeople in her workshop. Classify the following costs as either direct or indirect (assume that the individual item of jewellery is the cost object).

Select the correct answer in each instance.

- a) silver used in making necklaces, earrings and bracelets
- o direct cost
- o indirect cost

4 Direct and indirect costs 19/11/25

- b) cost of electricity for smelting
- o direct cost
- indirect cost
- c) salary of workshop supervisor
- o direct cost
- o indirect cost
- d) labour costs to shape and smelt jewellery
- direct cost
- o indirect cost

4.1 Direct/indirect and fixed/variable costs

You will remember that fixed costs and variable costs were discussed in Section 1 and that this distinction was crucial to understanding cost behaviour. You should note that costs may be simultaneously:

- direct and variable
- direct and fixed
- indirect and variable
- · indirect and fixed.

An extended example of cost classification is given in Figure 10.

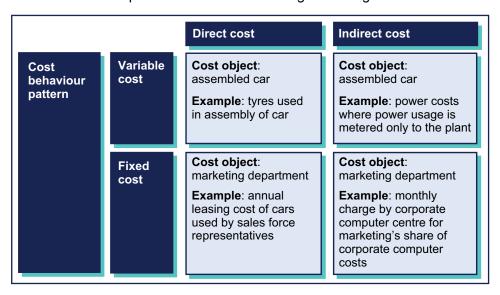


Figure 10 Assignment of costs to cost object (Adapted from Horngren et al., 1999, p. 38)

In Figure 10, you can see that the tyres used in the assembly of a car are both variable and direct costs. Another example of a direct cost is the annual leasing cost of cars used by sales representatives, although you should note that these particular costs are fixed as they do not vary with the level of activity in terms of the number of cars assembled.

4 Direct and indirect costs 19/11/25

In terms of indirect costs, you can see that power costs, where usage is metered at the plant level only, constitute indirect but variable costs. Finally, the monthly charge by the corporate computer centre for marketing's share of corporate computer costs will be classified as simultaneously indirect and fixed because, again, these will not vary with the level of activity in terms of cars produced.

For a meaningful system of cost control to work, there must be a proper administrative system operating that enables costs to be monitored and allocated in order to calculate the cost of the product or service in an appropriate way.

The cost of each unit in a commercial organisation is then related to the sales revenue generated by selling each unit. In other words, once the cost of each unit is known, you can calculate the profit per unit sold. Alternatively, you can set the selling price at a level that will generate the profit per unit that you wish to achieve.

5 Why organisations need to know the costs of products, processes and services



Figure 11

Ascertaining the cost of something is an essential part of effective management in an organisation. This applies to the commercial, not-for-profit and public sectors of the economy. In fact, it applies to all organisations, whatever their nature and form. An organisation without the necessary understanding of its cost structure and cost control is rather like a rudderless ship, lacking clear direction and at risk of breaking up when it meets the shore.

Costs are shown in external financial statements (such as the income statement) but what is disclosed about them is determined by the needs of reporting to shareholders or other stakeholders. Such information may provide a useful insight into overall performance, but it is insufficiently detailed to be an in-depth analysis of specific activities, such as the labour cost of an individual product or how much a particular service costs. It is important to make clear therefore that such aggregate information is not adequate for day-to-day management of the organisation, which requires details about, for example, the cost of individual products or services for pricing decisions, and so on. In this context, costing comes into its own. It provides a powerful management tool to monitor and plan activities. In any organisation, it is necessary to define clearly the nature of the product or services provided. This, in turn, will be the basis for defining the cost structure. The cost unit is defined as the unit of product or service for which cost is computed. Hence, a cost unit for a fruit juice factory might be a carton of fruit juice, while the cost unit for a firm of professional accountants could take the form of a given year's tax computation for a particular client (depending on the type of work undertaken). Normally, the management of an organisation in the commercial and not-for-profit sectors, or the funding agencies in the public sector, decide what is a convenient cost unit.

6 Why organisations need costing systems

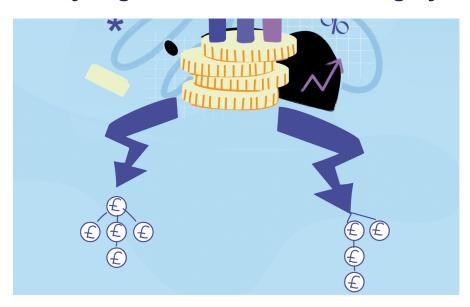


Figure 12

As certain activities will have the same types of costs irrespective of the individual organisation, entities in the same trade or sector may have very similar cost structures. In the public sector, for example, hospital trusts will all have similar costs and this drives the way in which they collect and report cost information. In higher education, the government-financed funding councils specify how costs are to be reported.

The need to comply with public sector external reporting requirements focuses organisations on determining the costs that have to be identified to meet those requirements. This is also the case for commercial and not-for-profit organisations. The way they calculate their costs is governed, to some extent at least, by the external reporting requirements of their sector and the regulators concerned. See the Charity Commission for England and Wales, for example.

The accurate measurement of cost for any organisation is also important for several other reasons, including:

- providing a basis for assessing past performance
- planning for future operations
- pricing purposes
- monitoring actual performance against budget
- · assisting in decision making
- assisting in cost reduction and control.

In the next activity you will consider these factors in more detail by looking at the case of a window manufacturer supplying standard products to the house-building industry.

Activity 6 Decision-making information

- Allow around 15 minutes for this activity
- (a) What cost information does the window manufacturer's management require?

Provide your answer...

Feedback

The cost information that the window manufacturer's management requires depends on the purpose and level of decision making. For example, for strategic decisions, such as whether to expand the product range or enter new markets, management would need information about the market demand, prices customers may be willing to pay, and the costs of different types of windows (such as uPVC, aluminium, or timber). For operational decisions, such as how to allocate resources, management would need information about the production process, the materials and labour costs etc. An important source of information that management uses is about costs. While this information would be captured by the financial reporting system, managers need more detailed management accounting information, such as profitability of individual products, budget variances and so on.

(b) How does the window manufacturer assess past operations and future plans?

Provide your answer...

Feedback

The window manufacturer would probably assess both past operations and future plans by calculating gross profit and net profit, two terms we consider next.

6.1 Calculating profit

For a window manufacturer, the key is to establish whether total revenue from the sale of windows exceeds the total costs incurred in its provision for sale. If the windows are manufactured (as opposed to bought in ready for resale), the gross profit would be calculated as follows. (Figures and dates are assumed for the sake of this example.)

Table 8 Gross profit calculation for the year ending 31 December 2024

 £

 Sales
 2,000,000

 Less: Cost of production
 (1,800,000)

 Gross profit
 200,000

This calculation uses the sales and the cost of goods sold, which includes labour and material costs incurred as well as production indirect costs to arrive at the gross profit (or

loss). However, as a basis for the day-to-day management of the factory, it provides us with only a limited insight into the company's performance.

Activity 7 Performance information



Allow around 5 minutes for this activity

What is it about this information that restricts us to a limited view of the company's performance?

Provide your answer...

Feedback

If you want to use this performance information, you need more details. Decision makers need either disaggregated information or information that is organised and rendered useful. The information needs to be viewed in context if it is to be useful. For example, one essential piece of information is a sense of scale – how many windows were sold? Let us assume that 20,000 windows were sold. This information allows us to start analysing the company's performance in a more meaningful way. Assuming that exactly 20,000 windows were produced during the year, we can now create a far more informative report than before.

The following report gives us a starting point for measuring the factory's detailed financial performance.

Table 9 Gross profit calculation for the year ending 31 December 2024

	£	Per window £
Sales	2,000,000	100
Less: Cost of production	(1,800,000)	90
Gross profit	200,000	10

Let us assume that all the windows were of the same specification and that inflation has not distorted the figures. From this information we can easily establish that the average selling price was £100 and that each window cost an average of £90 to produce.

As a result, management can see that every unit made an average gross margin or gross profit of £10. This information can then be used for planning purposes. Is that enough per window? Is it enough gross profit overall - to cover expenses and result in an overall net profit? Can the gross profit be increased – either per window or overall?

In the simple case of the window manufacturer, only when information about sales revenue, costs (including costs of production) and, therefore, gross and net profit per window, is available, does it become possible for management to consider revising its pricing, production levels and cost plans. Such individual unit cost information is vital for internal decision making (e.g. pricing) in the normal multi-product firm or in a services firm where different types of service offering are provided.

7 Cost information 19/11/25

7 Cost information

You might now be beginning to see the need for a costing system. Such a system relates production costs to activities – in this example, window production – and, in a commercial context, it enables us to establish the profitability of the activities. In the public sector or in a not-for-profit organisation, it provides the means of assessing the cost of providing a service or supplying a product.

Once management knows the level of activity, it can take a much more informed view of its operations. In the real world, accountants and managers would need to learn much more about the nature of the total cost of production of £1,800,000 for the window producer. For example, they would want to know how much the materials for the frames cost, how much the fittings cost, the cost of finishing and the charge for assembly labour, as well as the factory's expenses.

This simple example considered cost in a manufacturing context. If the organisation provided a service, similar information in terms of the cost of service delivery would be required. The precise nature of the cost information would depend on the purpose for which the cost information was to be used.

The next section will consider the ways in which we both classify costs and summarise them to provide meaningful insights into the effective (and ineffective) management of an organisation.

8 The nature of production costs: materials, labour and overheads

Production costs can be classified into three broad categories: materials, labour and overheads. These costs will be captured on a **cost card**. The cost card is a summary of costs that together make the total cost of one unit of a product – for example, a television or a meal. The term cost card is from an age that pre-dates computers, when costs were summarised on cards as they were incurred in the production process. Today, cost cards are embedded within accounting software with various coding systems, but the principle remains the same and the same information is recorded.

The information recorded constitutes the basic elements of cost: the materials used, the cost of labour and the proportion of indirect costs attributable to a particular unit of output. The source of this information is described in the next few sections. See the example below of a cost card for a door (figures are assumed).

	Quantity	Unit cost	Total £
Material	20 kg	£4/kg	80
Labour	4 hours	£6/hour	24
Production overhead	d:		
Machining	4 hours	£2/hour	8

Figure 13 A cost card

You certainly need to understand the basic way in which cost data is captured. The broad categories of cost in an organisation are covered in the next three sections.

8.1 Materials

There must be a proper system of inventory control for any meaningful costing system to operate. Such a system needs to control adequately the buying, receipt, storage and subsequent allocation of all items relevant to the cost of the product or service.

8.2 Labour costs

Labour costs have to be collected and charged to the appropriate goods or services. It is beyond the scope of this course to consider a detailed remuneration accounting system. You just need to be aware of the basic cost implications and how cost is charged to each unit of output.

In general, remuneration can be paid by two methods or combinations of them:

- time-related
- performance-related.

In a time-related system, an effective means of recording the time spent on a job is needed, which involves using time records. The remuneration is calculated by multiplying the time incurred on particular work by the appropriate rate per hour, minute and so on. In the case of performance-related pay (PRP), where the amount of pay depends on the efficiency and effectiveness of staff, systems have to be devised that record the level of relevant activity (e.g. the number of units produced). This is then used to pay employees at the appropriate rate. It is unusual for employees to be paid purely on a performance basis. Generally, they receive a minimum basic wage or salary and then their PRP is added to it.

The wages costs have to be allocated to products (cost units) or relevant cost centres. How this is done depends on the nature of the activities. For example, for individual discrete jobs (e.g. shipbuilding), it is based on the time spent on the job. In continuous processing or production (e.g. jam making), the labour costs incurred at each stage of the process are added together to arrive at the total labour cost, which is then divided by the number of units of output produced to obtain the labour cost per unit. In an accounting services firm, the cost allocation of wages for their services can be based on the time spent on each client engagement.

It is important to recognise that when charging labour to production, the associated labour costs, such as employer's pension contributions and other directly related costs, should also be charged to production.

Labour costs can be categorised as direct (relating to a specific item, e.g. table leg cutter wages) or indirect (relating to activities in general, e.g. factory supervisor salaries, rather than to specific individual items). Alternatively, they can be classified in terms of whether they are variable costs or fixed costs.

These classifications are not always straightforward. For example, when premium time, such as overtime, is involved, this is generally treated as an overhead cost. However, where a customer demands a job urgently, the cost of the overtime premium may well be charged directly to the specific, unplanned job (as a direct cost). Similarly, the use of PRP has potential implications for the classification of costs between fixed costs and variable costs. One way of avoiding these difficulties is to employ labour on a sub-contract basis.

8.3 Overhead costs: production and non-production

Production overhead costs are costs involved in the manufacturing of goods, such as manufacturing overhead. Non-production costs are costs incurred that are not part of manufacturing, for example, selling and administrative expenses. Overhead costs are indirect costs.

Examples of production overhead costs include supervisors' salaries and factory rent. In addition to materials and labour costs, a wide range of other overhead costs needs to be recorded and collected so that an appropriate estimate of cost can be made. Many of these overhead costs will be periodic expenditure on items with which you will be familiar, including:

- rent and business rates (either related to production or non-production)
- insurance (either related to production or non-production)
- administration expenses (likely to be non-production)
- motor and travelling expenses (likely to be non-production).

Non-production overheads are usually grouped into three classifications, as demonstrated in Interactive Figure 2.

Interactive content is not available in this format.



Interactive Figure 2 Non-production overheads

Classification in this way is known as classification by function. This provides a clear understanding of the different types of expenses incurred and helps businesses to make informed decisions regarding their cost structure. Costs that cannot be fully classified into these groups may be classified as general overheads or may receive their own separate name, such as research and development costs.

These expenses are recorded in the accounting system and allocated or apportioned to the appropriate departments, and analysed to aid decision making. In addition to these costs, which are paid in the normal course of trading, there are other costs, notably depreciation, which do not necessarily involve a cash outlay during the period under review. Depreciation (which is, of course, an operating cost) will have to be calculated using a suitable method.

8.4 Direct and indirect production costs

Production costs can be further classified as direct costs or indirect costs. Direct costs include:

- Direct material costs, which are the costs of materials that can be directly traced to the production of a product or delivery of a service.
- Direct labour costs, which are the costs of the workforce directly involved in the production or delivery of a product or service. These costs are calculated by measuring the time spent in direct production/performance work.
- Other direct expenses, which are expenses incurred as a direct result of making a product, providing a service, or running a department. The difference between direct expenses and overheads is that direct expenses are directly related to the production or delivery of a product or service, whereas overheads are not. Direct expenses vary in direct proportion to the output or activity level, whereas overheads are usually fixed or semi-variable. Direct expenses can be controlled easily, whereas overheads are difficult to control.

On the other hand, indirect costs are expenses that cannot be directly tied to a specific product or service. These costs are indirect because they are necessary for the overall operation of a business and support the production of multiple products or services. Examples of indirect costs include supervisors' wages, rent of the factory, legal and accounting fees, cleaning materials and building insurance.

Total cost is therefore all direct costs (material, labour and other direct expenses) plus all indirect costs (also known as overheads).

Activity 8 Cost classification activity



(1) Allow around 5 minutes for this activity

Identify whether the following costs are material, labour or expenses and whether they are direct or indirect for the production of a car.

Interactive content is not available in this format.



9 Environmental management accounting

In this section you will delve into the topic of environmental management accounting (EMA), its significance in organisational decision making and the evolving role of management accounting.



Figure 14

As you have learned, management accounting serves as a crucial component to support managers in decision making within organisations. With the increasing awareness of the need for sustainable development, it's important that management accounting adapts to address society's expectations of organisations playing a role in the transformation towards sustainability. As Milne (1996, p. 136) noted, management accounting is 'incomplete as generally practiced' by neglecting the external effects of corporate activities.

Environmental management accounting (EMA) is a reflection of this evolution, as it recognises the interdependence between the environment and the economy and provides valuable insights into the environmental impact of organisational activities. By integrating environmental considerations into decision making, organisations can demonstrate their commitment to sustainability and contribute to the achievement of environmental goals.

EMA is an emerging aspect of management accounting that deals with the collection, analysis and presentation of environmental cost and information for internal decision-making purposes. By providing managers with a clearer understanding of the environmental aspects of their organisations, EMA contributes to a more sustainable and responsible approach to business operations.

Schaltegger and Zvezdov (2015, p. 1333) define EMA as:

EMA is the subset of management accounting dealing with environmental issues and has been defined as the group of accounting methods and activities that support the collection, creation, analysis and communication of the necessary information to take decisions for dematerialization, environmental impact reduction and improved eco-efficiency (Herzig et al., 2012; Jasch, 2003; Schaltegger and Burritt, 2000).

9.1 The Sustainable Development Goals

Globally, there is growing attention on the environmental performance of organisations and their sustainability efforts, as well as the incorporation of United Nations Sustainable Development Goals (SDGs) within their strategy.

The SDGs are a set of 17 goals, created by the United Nations in 2015, to enhance sustainable development globally. These goals can have significant implications for financial management as they provide a roadmap for creating a sustainable future.

Interactive content is not available in this format.



Interactive Figure 3 The United Nations Sustainable Development Goals

By aligning financial decisions with the SDGs, organisations can contribute to achieving the goals, while also promoting financial stability and resilience. For example, investments in renewable energy can help to address climate change (SDG 13), while also creating new economic opportunities and enhancing sustainability (SDGs 8 and 11).

In addition to investment decisions, responsible financial reporting and accounting practices can help to ensure transparency and accountability in the use of financial resources, which is important for achieving many of the SDGs, such as SDG 16.

Overall, the SDGs provide a framework that can be useful for integrating sustainability into financial decision making, which can help to create a more just, equitable and sustainable future for all.

If you are interested in reading more about this, take a look at the UN's Global Compact website and the 17 Sustainable Development Goals.

9.2 Why sustainability is important to organisations

Organisations are facing increasing expectations to be accountable for ethical, social and environmental issues as well as to be managed in a sustainable way. There is strong recognition that environmental resources are limited, and stakeholders are paying closer attention to organisations' 'carbon footprint' and recycling practices.

Activity 9 Internal and external pressures on organisations to be sustainable



Allow around 20 minutes for this activity

What are the pressures (internal/external) on your organisation to be sustainable? Share your thoughts below.

Provide your answer...

Feedback

Internal pressures can be company policies, culture, goals, strategies and how they are driven by the leadership of the organisation. For example, if the CEO is highly

supportive of environmental initiatives, all individual departments must consider this in their decision-making processes. External pressures come from outside the organisation so there may be governmental regulations to reduce waste or conserve resources such as water, or customer demand for more environment-friendly products or demand from shareholders and other stakeholders to meet environmental and social standards and address concerns about the environmental impact of operations. In addition to these factors, NGOs and media can shape consumer demand and increase pressure on organisations to be more sustainable and responsible in their operations.

The interactive figure below shows some of the potential environmental costs that organisations might incur.

Interactive content is not available in this format.



Interactive Figure 4 Potential environmental costs

9.3 Why should a management accountant care about environmental issues?

So far, you have discovered that a management accountant is a professional responsible for collecting, analysing and presenting information for internal decision-making purposes. Traditionally, the focus of accounting information collection for internal decision making was on maximising profits and minimising costs. However, it has been increasingly recognised that management accounting plays a vital role in achieving a wider range of goals, including social and environmental objectives. Over the last few decades, the scope of management accounting for internal decision making has expanded beyond just financial costs and performance.

For instance, in order to minimise the use of valuable resources such as water and energy, and reduce waste and CO_2 emissions, etc., managers must carefully analyse the inputs and outputs of their production processes and work to reduce any negative impacts. This process of accounting, while relying on non-financial measurements, is still a critical component of management accounting. The goal is to create a more sustainable and responsible approach to business operations.

The importance of managing environmental costs has become increasingly prominent for companies for a number of reasons. First, environment-related costs are increasing significantly for many companies, with some industries using more than 20 per cent of operating costs to prevent, reduce or repair damage to the environment arising from their operating activities. Such significant costs need to be managed. Second, there are growing regulations and penalties for non-compliance. Third, society is demanding that companies be more environmentally responsible. Therefore, in order to stay competitive, organisations need to integrate environmental considerations into their business decision-making process.

Management accountants are now required to integrate environmental considerations into mainstream business decision making. Management accounting practices have

therefore gradually shifted beyond information provision to focus on the reduction of waste (the reduction of resource loss) to the generation of value (the effective use of resources). Section 1 highlighted how the standard conventional management accounting costs are only a part of the total costs that a company might incur, particularly when you consider all the possible external/environmental costs.

Activity 10 The role of EMA



Allow around 10 minutes for this activity

EMA is an accounting approach that focuses on providing managers with the necessary information to make informed decisions about the environmental impact of their organisational activities. Which of the following key elements of EMA do you believe to be the most important for an organisation?

Interactive content is not available in this format.



Feedback

While all the above options are essential, the most critical element will depend on the context, scope and level of resources available to the organisation. Due to limited resources, organisations may have to prioritise some options over others, depending on their specific goals and strategies. Ideally, considering all of these elements will make an organisation more environmentally progressive.

However, in the recent academic literature, management accounting has been criticised for not giving sufficient attention to incorporating environmental, social and sustainable issues. Studies such as Bartolomeo et al. (2000), Henri et al. (2014, 2016) and Schaltegger and Burritt (2017) reported that not enough companies were explicitly tracking environmental cost, which can lead to a lack of visibility into the true costs associated with environmental factors, making it difficult for organisations to make informed decisions.

9.4 EMA process

Tracking environmental costs facilitates the understanding of links between costs and provides insights into cost reductions through specific actions on cost drivers. In most management accounting systems, however, environmental costs are hidden within general overheads; thus relationships are not identified. It is vital to allocate environmental costs to the processes or products which give rise to them. Only by doing this can an organisation make well-informed business decisions and improve controls and benchmarking. Techniques such as input/output analysis can help organisations balance resources and costs, making them more transparent and manageable.

For example, a manufacturing company should know exactly how much waste is created during a production process, what percentage of the waste is recycled and how much energy is consumed. Only by identifying and allocating such costs to individual production processes can the company make informed decisions about the environmental effects of its activities. Enhancing efficiency in the use of energy, water and other raw materials brings not only environmental improvements (reduced resource use and reduced waste and emissions), but also potentially significant monetary savings as the costs of purchase and waste treatment decrease.

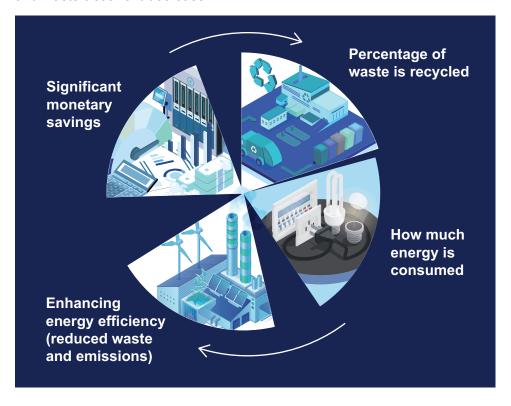


Figure 15 Circular model of production process: waste recycling and energy efficiency

Bennett and James (1998) suggested that the process of EMA involves three key levels: the gathering of environmental data (lowest level), the conversion of this data into useful information (middle level) and the dissemination of this information to decision makers, i.e. managers (top level).

Interactive content is not available in this format.



Interactive Figure 5 The three levels of EMA

9.5 EMA techniques

In this section you will learn about the following EMA techniques:

- input/output analysis
- material flow accounting
- activity-based costing
- lifecycle costing.

Input/output analysis is a technique used to reduce environmental resources and costs. Resources such as water, material and energy as inputs are balanced with the outputs such that what comes in must go out. For example, if 100 litres of water have been acquired but the production process only used 80 litres, then the 20-litre difference must be accounted for as this is considered avoidable waste for which actions need to be taken. The costs and resources used in the production process will become more transparent and hence manageable. Additionally, by incorporating both physical quantities and monetary values of outputs, businesses are compelled to prioritise environmental costs throughout their operations.

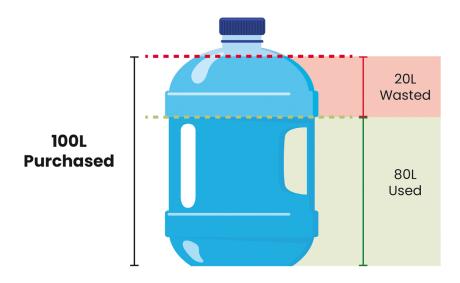


Figure 16 Input/output analysis

Another EMA technique is material flow accounting or flow cost accounting. This approach evaluates physical movement of materials in an organisation and offers transparency in material flows by examining the physical quantities involved, their costs and the value they bring. Flow cost accounting divides material flows into three categories: material, system, and delivery and disposal. The values and costs associated with each flow are calculated and analysed, enabling organisations to understand their impact on the environment and on their bottom line.

The ultimate goal of flow cost accounting is to reduce the quantity of materials used in an organisation, with the belief that not only will this have a positive impact on the environment, but also lead to cost savings in the long term. By tracking and evaluating the movement of materials and their associated costs, organisations can identify areas for improvement and make informed decisions to reduce waste and optimise their operations.

Walz and Guenther (2021) analysed 73 case studies about material flow accounting and reported that tracking and evaluating material flow can contribute to improved performance and cost reduction for companies, while also helping to reduce environmental damage. The authors also provide some challenges and drawbacks associated with the implementation and application of material flow accounting within these companies.

If you are interested in studying further on the topic, Walz and Guenther's 2021 article 'What effects does material flow cost accounting have for companies?: Evidence from a case studies analysis', which appeared in the *Journal of Industrial Ecology*, can provide

valuable insights and evidence regarding the impact of material flow cost accounting on companies.

Activity-based costing (ABC) is another cost allocation method that assigns internal costs to cost centres and drivers based on the activities that generate those costs. In an environmental accounting context, ABC helps distinguish between environment-related costs, which can be attributed to joint cost centres; and environment-driven costs, which are often hidden within general overheads.

Lifecycle costing (LCC) is another technique used in environmental accounting that takes into account the full environmental impact and costs associated with producing a product from start to finish, often referred to as 'cradle to grave'. This technique aims to identify all the environmental costs associated with a product, including raw material extraction, manufacturing, transportation, usage, disposal and so forth. LCC allows businesses to identify the full impact of their products and processes on the environment, including those that may have been previously overlooked.

9.6 Understanding environmental management accounting and traditional management accounting

As you have learned, management accounting is the process of providing relevant and timely information to managers and other internal stakeholders to support planning, decision-making and control activities within an organisation. However, traditional management accounting systems often fail to capture and report the environmental costs and impacts of business operations, which may lead to poor decisions and environmental performance. In this section, you will learn about both the drawbacks of traditional management accounting, and why it is still useful.

Activity 11 Understanding and applying environmental management accounting

Allow around 15 minutes for this activity

Read Section 2.1 (p. 19) of the

IFAC report on Environmental Management Accounting (EMA). Having read the definition, if you were asked to come up with an alternate definition of EMA, what would it be? Write your own definition with an explanation of why you think your definition is more valid.

Provide your answer...

Feedback

Burritt et al. (2001) stated there is still no precision in the terminology associated with EMA. However, it is widely accepted that EMA is a process of collecting. analysing and communicating environmental information to support organisational decision making. The definition of EMA is still evolving and has been expanded upon by multiple international organisations, including the IFAC. Nevertheless, the essence of EMA remains the same: it is a tool for organisations to make informed decisions by considering the environmental impact of their operations and activities.

The quality of your answer depends on its coherence and your ability to support and justify your view. The aim of this activity is to encourage critical thinking, independent thought, reflect on your own learning and to apply the knowledge gained in this section.

In contrast to environmental management accounting, traditional management accounting may not adequately address the environmental costs and benefits of organisational activities. This can result in a lack of information and awareness for managers to make decisions that are aligned with environmental goals. Let's look at some of the drawbacks of tradition management accounting.

Activity 12 Drawbacks of traditional management accounting

Allow around 15 minutes for this activity

Traditional management accounting may fail to adequately deal with environmental costs and managers may therefore not have the adequate information to manage or reduce them. Tick all options that are a relevant drawback of traditional management accounting.

- □ Inadequate consideration of environmental costs
 - Traditional management accounting does not take into account the environmental costs associated with production and operations. This leads to a lack of information for managers to make decisions about reducing these costs and managing them effectively.
- □ Raw material and energy costs are grouped with overheads
 - Traditional management accounting tends to group raw material and energy costs together with other overheads, making it difficult for managers to track and monitor these costs. This can result in a lack of visibility into the true cost of production and operations, making it challenging to make informed decisions.
- □ Failure to account for future costs

Traditional management accounting does not consider future costs, such as decommissioning and compliance costs, until the end of a project. This leads to a lack of visibility into the total cost of a project and can result in unexpected costs and budget overruns.

□ Reputational costs

Traditional management accounting fails to consider the impact that environmental issues can have on a company's reputation. This includes the cost of negative publicity and reduced investor confidence. A lack of information about reputational costs can result in a failure to fully understand the financial impact of environmental issues on a company.

Externalities

Costs imposed on the environment that do not involve a direct monetary outlay by the organisation concerned. These costs can arise from various factors such as pollution and other similar impacts on the environment. Traditional management accounting (and EMA to some extent) fails to capture these costs.

Feedback

All of the above are relevant drawbacks of traditional management accounting. This list is not exhaustive. Can you think of more?

Note down a few reasons why traditional management accounting is still useful, then listen to the audio in the feedback.

Provide your answer...

Feedback

The following audio discusses why traditional management accounting is still useful.

Audio content is not available in this format.



Audio 1 Why traditional management accounting is still useful

If you are interested in learning more about environmental management accounting, you can access the *Journal of Cleaner Production* or *Management Accounting Research* journal or search for the term 'environmental management accounting' to take a look at a few articles published within this area.

Summary 19/11/25

Summary

This course explored why organisations need to know about costs and why they need costing systems. You learned about various possible classifications for costs as well as the nature of production and non-production costs. You also learned about the importance of understanding cost behaviour in terms of fixed versus variable cost elements. The importance of classifying costs as direct or indirect was also covered. Perhaps the overriding message of this course concerns the need for people to be able to describe costs as fixed or variable and so on if they are to be able to understand cost behaviour in relation to goods or services provided. Lastly, in this course we explored the basic principles of environmental management accounting and the role of management accountants in addressing environmental issues, including some environmental management accounting techniques.

You should now be able to:

- describe the nature and behaviour of fixed, variable, stepped fixed and semi-variable costs and interpret graphs showing the behaviour of different types of costs
- explain why costs need to be classified as direct/indirect for planning and decision making and why organisations need to know the costs of products, processes and services
- distinguish between cost objects, cost units and cost centres and discuss the nature of production costs in terms of materials, labour and overheads
- explain the nature of different non-production costs, apply the principles of environmental management accounting and analyse the impact of environmental costs and their implications for management accounting.

This free course is an adapted extract from the Open University course B253 and related to the Open University qualification BSc (Honours) Accounting and Finance.

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Glossary

Absorption costing

An approach to costing in which all of the manufacturing costs involved are absorbed by the units produced. Absorption costing, also known as full costing, is where all the fixed manufacturing overheads, as well as variable manufacturing costs, are allocated to products.

Contribution

The excess of revenue generated from the sales of a product/service over the variable costs of producing those goods/services. This is regarded as the 'contribution' towards the fixed costs of production.

Cost accounting

The process of collecting, classifying and recording all the costs incurred in a business in a way that can be used to improve the management of such costs.

Cost card

A record showing how the cost of each product is built up, and thus the total cost of one unit of a product. The cost card records the quantities of material and prices, standard labour times, and the rates of pay, as well as the fixed and variable overhead rates per unit of product. Traditionally, this information was kept on a series of cards, but it is now invariably held in computer databases.

Cost object

A unit of product or service in relation to which costs are ascertained.

Cost unit

Glossary 19/11/25

The unit of product or service for which cost is computed.

Direct costs

A direct cost can be directly traced to a specific cost centre. Direct costs are costs which can be specifically identified with a product. They thus include direct labour and materials but exclude variable overheads.

Fixed costs

A cost that does not change with the level of activity in the relevant range.

Indirect costs

An indirect cost is one that cannot be directly identified to a cost centre and therefore has to be apportioned to cost centres on another suitable basis.

Overheads

Overheads refers to the costs to operate a business but excludes the direct costs associated with creating a product or service.

Relevant cost range

The span of activity over which a certain cost behaviour holds true.

Revenue centres

An organisational segment for which a particular manager is held accountable in terms of revenue earned.

Variable costs

Costs which vary directly with changes in the number of units of output produced.