DP IB Business Management: HL



3.4 Final Accounts

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Statement of Profit or Loss

An Introduction to Financial Accounts

- Financial accounts detail the financial performance of a business over a trading period
- The two main financial accounts are
 - The Statement of Profit or Loss
 - The Statement of Financial Position
- Public Limited Companies (PLCs) have to produce financial reports annually
 - Annual reports must comply with International Financial Reporting Standards (IFRS) allowing straightforward comparisons of performance **over time** and **between companies**

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Examiner Tips and Tricks

The two main financial accounts sometimes go by different titles, though the **titles given above are those that will be given in your examination**.

- The Statement of Profit or Loss is also widely known as the Profit and Loss Account or an Income Statement
- The Statement of Financial Position is often referred to as the Balance Sheet.

The Statement of Profit or Loss

- The Statement of Profit or Loss shows the income and expenditure of a business over a period of time

 usually a year and calculates the amount of profit made
- It is divided into three parts
 - The trading account
 - The profit and loss account
 - The appropriation account

Diagram: the statement of profit or loss

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STATEMENT OF PROFIT OR LOSS: HEAD TO TOE WELLBEING LIMITED FOR THE YEAR ENDED 31st DECEMBER 2022

| | \$m | |
|--|-----------------------------|-----------------------------------|
| SALES REVENUE COST OF SALES GROSS PROFIT | 124.65 (18.92) 105.73 | THE TRADING ACCOUNT |
| EXPENSES PROFIT BEFORE INTEREST & TAX | (39.87) 65.86 | |
| INTEREST | (2.01) 63.85 | THE PROFIT AND LOSS ACCOUNT |
| TAX PROFIT FOR PERIOD | (5.47) 58.38 | |
| DIVIDENDS RETAINED PROFIT | (13.75) 44.63 | THE APPROPRIATIONS ACCOUNT |
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An example of a Statement of Profit or Loss for Head to Toe Wellbeing Ltd

The trading account

- The trading account is where the cost of sales is deducted from sales revenue to calculate the gross profit
 - In 2022 Head to Toe Wellbeing Limited's sales revenue was \$124.65m and its cost of sales were \$18.92m
 - The gross profit for the period was therefore

$$124.65 \text{ m} - 18.92 \text{ m} = 105.73 \text{ m}$$

The profit & loss account

- The profit and loss account deducts a series of expenses to determine the profit for the period
 - In 2022 gross profit was \$105.73m and expenses were \$39.87m
 - The profit before interest and tax was therefore

105.73 m - 39.87 m = 65.86 m

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- The business also paid \$2.01m interest
- The profit before tax was therefore

$$65.86m - 2.01m = 63.85m$$

- The business also paid \$5.47m tax
- The profit for the period was therefore

63.85m - 5.47m = 58.38m

The appropriations account

- The appropriations account shows how profits are distributed for the period
 - In 2022 Head to Toe Wellbeing Limited distributed \$13.75m to shareholders as **dividends**
 - \$44.63m was therefore **retained as profit**

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Examiner Tips and Tricks

For **non-profit organisations** some amendments are made to the standard layout of the Statement of Profit or Loss

- 1. The word 'profit' is replaced by '**surplus**'
- 2. Non-profit organisations are usually **exempted from the payment of corporation tax** so this is not normally recorded or is recorded as a O value

How Stakeholders use the Profit & Loss Account

 The Statement of Profit or Loss is a very useful source of information for stakeholders to evaluate the performance of a business

| Shareholders | Employees |
|---|---|
| Shareholders are interested in revenues, costs | Employees are interested in profits earned |
| and profits earned, business growth and | and the potential for wage increases and |
| dividend payments | job stability |
| Shareholders may use ratio analysis tools to | Employees may look at notes to the |
| identify profit margins and returns on investment | accounts that detail levels of executive pay |

How Stakeholders use The Statement of Profit or Loss

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| Managers & Directors | Suppliers |
|--|--|
| Managers are interested in key performance data such as an improvement in sales revenue and net profit This data can aid business decision making Financial data can provide evidence to support the payment of bonuses | Suppliers are interested in the continued success of the company the are supplying and this information is also used by suppliers to determine the level of trade credit offered to businesses |
| Government | Local Community |
| Governments need to determine how much tax is payable The Statement of Profit or Loss can provide an insight into whether the business will continue to provide employment, place orders with other businesses and supply goods and services to the public sector | The local community is interested in the stability of the business and what this may mean for jobs in the community Another interest is to see if the firm is generating enough profit to perhaps approach them for local sponsorship |

Statement of Financial Position (Balance Sheet)

The Statement of Financial Position

- The Statement of Financial Position shows the financial structure of a business at a specific point in time
- It identifies a businesses assets and liabilities and specifies the capital (equity) used to fund the business
- The Statement of Financial Position is also known as the **Balance Sheet**
 - It is called the balance sheet, as net assets should equal the total equity

Diagram: the statement of financial position

| STATEMENT OF FINANCIAL POSITION: PACKER SPORTS LIMITED AS AT 31st DECEMBER 2022 | | | |
|--|-----------------|--------|---|
| | \$ | \$ | |
| NON-CURRENT ASSETS | | | NON-CURRENT ASSETS ARE ITEMS THAT ARE |
| PROPERTY, PLANT & EQUIPMENT | 22.700 | | OWNED BY THE BUSINESS IN THE |
| ACCUMULATED DEPRECIATION | 1.550 | | LONG-TERM. EXAMPLES INCLUDE |
| NON-CURRENT ASSETS | | 24.250 | MACHINERY, BUILDINGS & VEHICLES |
| CURRENT ASSETS | | _ | |
| CASH | 4.665 | 1 | CURRENT ASSETS ARE ITEMS THAT ARE |
| DEBTORS | 2.630 | | CONVERTED INTO CASH QUICKLY - USUALLY |
| STOCK | 8.250 | | WITHIN 12 MONTHS. THE MAIN TYPES OF CURRENT |
| CURRENT ASSETS | | 15.545 | ASSETS ARE CASH, DEBTORS & STOCK |
| TOTAL ASSETS | | 39.795 | TOTAL ASSETS = NON-CURRENT ASSETS + CURRENT ASSETS |
| CURRENT LIABILITIES | | 500 | JAMN |
| BANK OVERDRAFT | 540 | | CURRENT LIABILITIES ARE MONIES OWED BY A |
| TRADE CREDITORS | 3.960 | 1.000 | BUSINESS THAT WILL FALL DUE WITHIN 12 |
| OTHER SHORT-TERM LOANS | 560 | | MONTHS. THE MAIN TYPES OF CURRENT |
| CURRENT LIABILITIES | | 5.060 | LIABILITIES ARE BANK OVEDRAFTS & CREDITORS |
| TOTAL LIABILITIES LONG-TERM BORROWING NON-CURRENT LIABILITIES | 20.000 | 20.000 | NON-CURRENT LIABILITIES ARE MONIES OWED THAT DO NOT NEED TO BE PAID BACK FOR AT LEAST 12 MONTHS. EXAMPLES INCLUDE BANK LOANS & MORTGAGES |
| TOTAL LIABILITIES | | | TOTAL LIABILITIES = CURRENT LIABILITIES + NON-CURRENT LIABILITIES |
| NET ASSETS | | 14.735 | NET ASSETS = TOTAL ASSETS - TOTAL LIABILITIES |
| EQUITY SHARE CAPITAL RETAINED EARNINGS TOTAL EQUITY | 1.500 13.235 | 14.735 | EQUITY SHOWS HOW THE NET ASSETS OF A BUSINESS ARE FUNDED. TOTAL EQUITY IS ALSO KNOWN AS CAPITAL EMPLOYED |

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An example of a Statement of Financial Position for Packer Sports Ltd

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Calculating the total assets

- On the stated date Packer Sports Ltd owned non-current assets worth \$24,250
 - It owns property, plant and machinery that is valued at \$22,700
 - These assets have been **depreciated** by \$1,550
- The value of its current assets was \$15,545, comprised of cash, debtors and stock
- Total assets were therefore

\$ 24,250 + \$ 15,545 = \$ 39,795

Calculating total liabilities

- On the stated date Packer Sports Ltd had current liabilities worth \$5,060, comprised of a bank overdraft, trade creditors and other short-term loans
- The value of its long-term liabilities were \$20,000
- Total liabilities were therefore

5,060 + 20,000 = 25,060

Calculating the net assets

Packer Sports Limited's net assets were therefore

$$39,795 - 25,060 = 14,735$$

Calculating total equity

Net assets of \$14,735 were funded through share capital of \$1,500 and retained earnings of \$13,235

Examiner Tips and Tricks

In Paper 2 you may be asked to construct a balance sheet from given data.

To achieve full marks you must **follow the format illustrated above** and you should check that you have

- 1. Included all of the relevant **headings** in the correct order
 - Non-current assets
 - Current assets
 - Total assets

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- Current liabilities
- Non-current liabilities
- Total liabilities
- Net assets
- Equity
- 2. Correctly classified items under each heading
 - For example, you need to ensure that you have correctly allocated cash, stock and debtors as current assets, and creditors and bank overdrafts as current liabilities
- 3. Omitted irrelevant figures that belong to the profit and loss account
 - For example, costs and revenues are not included in the balance sheet

How Stakeholders use the Statement of Financial Position

• Stakeholders will use the Statement of Financial Position **alongside the Statement of Profit or Loss** to perform **ratio analysis** and **compare performance over time or with other businesses**

| Stakeholder | Interest in the Balance Sheet |
|----------------------------|---|
| Shareholders | Used to identify the asset structure of the business and how their investment has been put to use Used to calculate the working capital of the business and determine its solvency. |
| | Used to determine the rough value of a business which helps a judgement on whether their investment is growing |
| Managers & Directors | Used to identify the financial position of the business at a given point in time Useful to assess the working capital position of the business and determine if there are enough liquid current assets to pay its bills Provides information on the capital structure of the business which helps guide decisions on whether to raise further funds through borrowing or via other means (e.g. share issue) |
| Suppliers and Creditors | Used to judge the solvency of the business to determine the risk when offering firms trade credit |

How Stakeholders use the Statement of Financial Position



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Your notes

| | Businesses with low levels of working capital may find it difficult to pay short- term debts and so suppliers may offer trade credit, but with stricter terms | | |
|-----------|---|--|--|
| Employees | Used to answer questions such as: | | |
| | Is the business financially stable or are jobs at risk? | | |
| | Has the businesses performance improved or worsened? | | |
| | What is the business spending its money on? | | |
| | How much are senior executives paid? | | |
| | How much tax is the business paying? | | |
| | | | |



Examiner Tips and Tricks

Information found in the Statement of Profit or Loss and Statement of Financial Position can be used in a range of answers.

For example, if you are answering a question about sources of finance you might be able to use the capital structure of the business to recommend whether a business should borrow or look at an alternative source.

If a business already relies heavily on borrowing, it may be more sensible to recommend seeking to raise more share capital.

Different types of Intangible Assets

- Intangible assets are **non-physical assets** that cannot physically be held but **hold value for a business**
- Businesses need to account for intangible assets in their annual reports as it adds to the value of the business

Diagram: intangible assets

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Your notes



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- Contracts and agreements
 - Long-term contracts, lease agreements, licensing agreements and franchise agreements that have value and **contribute to future cash flows**
 - Agreements with employees or business partners that restrict them from competing with the company for a specific period which protect the company's interests and market position (non compete contract)
- Goodwill
 - The value of a **company's reputation**, customer base and brand
 - Goodwill often represents the premium paid when one business takes over or merges with another business
- Domain names and other online assets
 - Valuable domain names, websites, social media accounts and online platforms that drive customer engagement, traffic, and online presence
- Licenses and permits
 - Licenses, permits, and regulatory approvals that grant exclusive rights or access to certain markets or resources, often issued by governments

Your notes

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Depreciation Methods

Understanding Depreciation

- Depreciation is an accounting technique which recognises that the value of fixed (non-current) assets falls over time
 - It reflects wear and tear, the reduction in an asset's value as it ages or obsolescence
- Two common methods of calculating depreciation include
 - Straight line depreciation
 - Units of production depreciation
- Whichever method a business selects, the goal is to allocate the historic cost of the asset in a way that reflects its reduction in value over time

| Accurately calculate the businesses value | Plan effectively for the replacement of assets | Realistically reflect the performance of assets in financial statements |
|---|--|---|
| As assets depreciate their | Understanding the | Depreciation is an expense |
| current value is recorded | depreciation rate of assets | recorded in the income |
| in the balance sheet Historic cost is an | helps a business to budget for | statement Reduces reported |
| inaccurate measure as | future replacements Avoid sudden financial | operating profit Provides an accurate |
| time goes by Provides an accurate | strain Schedule replacements | representation of a |
| representation of | to avoid disruption to | businesses financial |
| capital employed | production | performance |

Reasons for Calculating Depreciation

Straight Line Method

- The straight line method reduces the value of an asset by the same value each year of its useful life
- Three key variables are required to calculate the annual rate of depreciation of an asset
 - Life expectancy

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- The number of years it is expected to be used before it will need to be replaced
- Residual value
 - The scrap value of the asset at the end of its useful life
- Historic cost
 - The initial cost of purchasing the asset
- The **annual rate of depreciation** is calculated using the following formula

Annual depreciation = $\frac{\text{Historic cost} - \text{Residual Value}}{\text{Life Expectancy}}$



Worked Example

Luftig Tours sells hot air balloon flights in the Salzburg area of Austria. The company recently paid €280,000 for a new balloon. Its life expectancy is anticipated to be 7 years. Its residual value is forecast to be €52,500

Calculate the annual rate of depreciation of the new hot air balloon

(2 marks)

Step 1: Deduct the residual value from the historic cost

 $\in 280,000 - \in 52,500 = \in 227,500$ (1)

Step 2: Divide the result by the life expectancy

 $\frac{\notin 227,500}{7 \text{ years}} = \notin 32,500$ (1)

- Once the annual rate of depreciation has been calculated, **until the end of its life expectancy**
 - It is recorded each year as an expense in the income statement
 - The value of the asset is reduced each year by this amount in the balance sheet and is recorded as its book value



Worked Example

Luftig Tours sells hot air balloon flights in the Salzburg area of Austria. The company recently paid €280,000 for a new balloon. Its life expectancy is anticipated to be 7 years. Its residual value is

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| forecast to be €52,500 | | | | | |
|---|---------------------|------------------------|--|--|--|
| (a) Calculate the book value to be recorded in the balance sheet for each of the hot air balloon's years of useful life | | | | | |
| | | | (4 marks) | | |
| (b) Calculate | the accumulated dep | preciation for each ye | ear of the the hot air balloon's useful life | | |
| | (2 marks) | | | | |
| Step 1: Create a table with the following headers | | | | | |
| Year D | epreciation | Book Value | Accumulated Depreciation | | |
| 0 | | | | | |
| 1 | | | | | |

| | | | • | |
|------------|----------------|------------|---------------|--|
| Step 2: Co | omplete Year (|) with the | historic cost | |

2

3

4

5

6

7

| Year | Depreciation | Book Value | Accumulated Depreciation |
|------|--------------|------------|--------------------------|
| 0 | 0 | €280,000 | |

Step 3: Calculate Year 1 by deducting the annual rate of depreciation

Year 1 = € 280,000 - € 32,500 = € 247,500 (2)

Step 4: Record these values in the table

| Year | Depreciation | Book Value | Accumulated Depreciation |
|------|--------------|------------|--------------------------|
| 0 | 0 | €280,000 | |
| 1 | €32,500 | €247,500 | |



Step 5: Calculate Years 2 to 7 in the same way

| Year | Depreciation | Book Value | Accumulated Depreciation |
|------|--------------|------------|--------------------------|
| 0 | 0 | €280,000 | |
| 1 | €32,500 | €247,500 | |
| 2 | €32,500 | €215,000 | |
| 3 | €32,500 | €182,500 | |
| 4 | €32,500 | €150,000 | |
| 5 | €32,500 | €117,500 | |
| 6 | €32,500 | €85,000 | |
| 7 | €32,500 | €52,500 | |

Your notes

(2)

Step 6: Calculate accumulated depreciation by adding the annual rate of depreciation each year

| Year | Depreciation | Book Value | Accumulated Depreciation |
|------|--------------|------------|--------------------------|
| 0 | 0 | €280,000 | 0 |
| 1 | €32,500 | €247,500 | €32,500 |
| 2 | €32,500 | €215,000 | +€32,500 =€65,000 |
| 3 | €32,500 | €182,500 | +€32,500 = €97,500 |
| 4 | €32,500 | €150,000 | +€32,500 =€130,000 |
| 5 | €32,500 | €117,500 | +€32,500 =€162,500 |
| 6 | €32,500 | €85,000 | +€32,500 = €195,000 |
| 7 | €32,500 | €52,500 | +€32,500 =€227,500 |

(2)

Strengths and weaknesses of the straight line method

• The main benefit of the straight line depreciation over other methods is that it is simple to calculate

 In many countries it is preferred for tax purposes as it allows for a consistent deduction of depreciation expenses over the asset's useful life

The Main Strengths and Weaknesses of Using Straight Line Depreciation



| Strengths | Weaknesses | |
|--|--|--|
| Simplicity Straightforward calculations make it a practical method for small businesses or assets with a predictable decline in value | Doesn't Reflect Actual Usage If an asset is heavily used in the early years and experiences less use later on this method may not accurately represent its true value | |
| Equal Allocation Suitable when the asset's usefulness is expected to decline steadily over time | Market Value Ignored Some assets - such as vehicles - depreciate rapidly in the early years and more slowly/not at all in later years | |
| Stability Predictability can be helpful for budgeting and financial planning | Mismatch with Reality May not match the actual wear and tear of an asset leading to an inaccurate representation of its value | |

Units of Production Method

- The units of production method depreciates an asset based on its usage or production output during an accounting period (usually a year)
 - It is commonly used for assets that wear out based on the number of units produced or hours of operation rather than the passage of time
 - Vehicles commonly lose value as their mileage increases
 - Machinery wears out as it is used in production
- The units of production calculation involves two steps

Step 1: Calculate the depreciation per unit

Depreciation per unit = $\frac{\text{Historic cost} - \text{Residual value}}{\text{Expected units over asset's lifetime}}$

Step 2: Calculate the depreciation per time period (year)

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| | · · · · · · · · · · · · · · · · · · · |
|--|---------------------------------------|
| | Your |
| Worked Example | |
| - Emilio's Pizzeria purchased a new pizza oven for \$22,600 | |
| t expects the pizza oven to last for 12,000 hours before it needs to be replaced | |
| t will be sold for scrap for \$4,000 after 4 years | |
| a) Calculate the depreciation expense if Emilio's Pizzeria uses the pizza oven for 2,900 first year | hours in the |
| | (3 marks) |
| Step 1: Calculate the depreciation per unit | |
| Historic cost – Residual value | |
| Expected units over pizza oven's lifetime | |
| $=\frac{\$22,600 - \$4,000}{12,000,1}$ (2) | |
| 12,000 nours | |
| = \$1.55 | |
| Step 2: Calculate the depreciation for the time period | |
| Depreciation per unit \times Number of units | |
| = \$1.55 × 2,900 hours (1) | |
| = \$4,495 | |
| Once the depreciation total has been calculated | |
| It is recorded as an expense in the income statement | |
| | |

Strengths and weaknesses of the units of production method

• This method is more **complicated to calculate** than the straight line method

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It is more likely to reflect the true running costs of non-current assets such as machinery The Main Strengths and Weaknesses of Units of Production Depreciation



| Strengths | Weaknesses | |
|--|--|--|
| Depreciation expenses match actual usage of the asset Particularly useful when an asset's wear and tear are directly related to its level of production | Calculation can be complex Especially when measuring actual usage is difficult or when production levels fluctuate | |
| Reflects the asset's actual value Machinery in manufacturing experiences more depreciation when used more intensively | Financial statements less predictable Inconsistent depreciation expenses each accounting period as it is directly tied to production levels | |

When to use each Depreciation Method

- The method chosen to depreciate a fixed asset depends on a range of factors, such as
 - Whether the asset is likely to become **obsolete**
 - Whether the asset is directly used in production
 - Whether its value is closely linked to the amount it is used

Appropriate Situations for each Depreciation Method

| Straight Line Method | Units of Production Method |
|--|--|
| Most appropriate when The asset's value is unlikely to change due to obsolescence | Most appropriate when The asset's value is linked to its amount of use |
| A small business is valuing assets Assess are of relatively low value Assets have a predictable lifespan | Assets are valuable and need to be valued with precision A manufacturing business is valuing assets |





Examiner Tips and Tricks

Some assets appreciate over time

Increasing land and property values should also be recorded in the final accounts

- Usually recorded as **extraordinary income** in the profit & loss account
- Higher non-current (long term) asset value is recorded in the balance sheet
- Businesses should take a **cautious approach** in appreciating the value of these assets
- It may be deemed **fraudulent to misrepresent their value** in final accounts especially if this value is used as leverage to obtain finance

