DP IB Business Management: HL



3.7 Cash Flow

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Cash Flow & Working Capital

The Difference Between Profit & Cash Flow

- Profit and cash are different financial terminologies
 - Profit is calculated at a specific point in time
 - While a company may be in profit, they **may lack cash** as some customers may not actually have paid them yet
- Profit is the difference between revenue generated and total business costs during a specific period of time
 - Profit can be an important indicator of a company's financial health and long-term sustainability as it helps to assess the effectiveness of a company's operations
- Cash is measured by taking into account the full range of **money flowing in and out of a business**
 - This includes revenue from sales, operating expenses, investments, loans, and any other cashrelated transactions
- A profitable business is likely to fail if it does not have sufficient cash
 - Cash-poor businesses will struggle to pay suppliers
 - E.g. Lifestyle retailer Joules announced plans to **liquidate** in December 2022 as a result of cash flow difficulties despite making a profit of £2.6 million during the previous year

Working Capital

- Working capital is the money that a business has available to fund its day to day activities
- It is sometime included as net current assets on the Statement of Financial Position
- Working capital is calculated using the formula

Working capital = Current assets - Current liabilities

Worked Example

Rondat Components is a heating components business based in Malmö. It has been struggling to control its level of stock. Its customers are Scandinavia's leading gas boiler manufacturers,. They require Rondat Components to supply products 'just in time' and as a result they must hold large

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amounts of varied stock to ensure that their customer's needs can be met. *Rondat Components* offers its customers 90-days credit terms.



Financial Information for Rondat Components

	2022	2021
	£m	£m
Stock	8.1	7.2
Debtors	2.2	3.1
Cash	0.9	1.2
Short-term loan	6.4	4.4
Creditors	5.1	5.9

Calculate Rondat Components' working capital in 2021 and 2022 [3]

Answer:

Step 1: Identify and calculate current assets and current liabilities for 2022 and 2021

Current assets $2022 = \pounds 8.1m + \pounds 2.2m + \pounds 0.9m = \pounds 11.2m$ $2021 = \pounds 7.2m + \pounds 3.1m + \pounds 1.2m = \pounds 11.5m$ Current liabilities $2022 = \pounds 6.4m + \pounds 5.1m = \pounds 11.5m$ $2021 = \pounds 4.4m + \pounds 5.9m = \pounds 10.3m$ [1mark]

Step 2: Subtract current liabilities from current assets for 2022 and 2021

2022	=	£11.2m - £11.5m	=	(£0.3m)	[1mark]
2021	=	£11.5m - £10.3m	=	£1.2m	Limarkj

Managing working capital

- Working capital is described as the lifeblood of a business because a lack of working capital often leads to business failure if the business cannot meet its immediate financial obligations
 - Cash is the most liquid of a business's current assets and can be used to settle debts immediately
- Effective management of working capital involves careful cash management
 - Debtors and stock are less liquid
 - Businesses that are struggling with a lack of working capital may look to convert these current assets into cash as quickly as possible (e.g. by selling the stock at lower prices or by more

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purposefully chasing payment from customers)

- Requesting an extension of **payment terms** from suppliers can increase working capital in the short term as cash remains in the business for longer
- Making use of short-term borrowing options such as overdrafts can improve a businesses working capital situation as it can access more cash than it has in its current account
- A business can have too much working capital
 - If a business is **holding large amounts of cash** it is likely to be **missing out** on the benefits of investing it in fixed assets or investments
 - This may represent a significant **opportunity cost** especially when interest rates are high
 - If a business is holding large amounts of stock it may incur extra storage costs (e.g. security and handling costs) and could use the cash 'tied up' in this stock for other purposes

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Examiner Tips and Tricks

A common exam error is the confusion between working capital and cash. Whilst working capital includes cash, it also includes less liquid current assets (e.g. debtors and stock). These less liquid assets cannot be used to pay bills and so, whilst a business may have a positive working capital figure, it may still fail because it cannot meet its immediate financial commitments.

Liquidity Position

- The Statement of Financial Position contains the financial information required to draw conclusions about the **liquidity of the business**
 - Liquidity is the ability of a business to meet its short term commitments (e.g. payments to creditors) with its available assets
 - A business that cannot pay its bills will usually **fail very quickly**, even if they are profitable
 - Managing liquidity is a key way to manage risk in a business and helps a business to prepare for the unexpected

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Cash Flow Forecasts

Cash Flow Forecasts

- A cash flow forecast is a prediction of the anticipated **cash inflows** and **cash outflows**, **typically for a** six to twelve month period
- A detailed business plan should include a **cash flow forecast** that allows the business owners to identify its financial needs

Key terminology and an example

- The net cash flow is calculated by subtracting total outflows from total inflows
- The **opening balance** is the previous month's closing balance carried forward
- The **closing balance** is calculated by adding the net cash flow to the opening balance

An Example of a Start-up Six-month Cash Flow Forecast (£s)

	Jan	Feb	Mar	Apr	May	Jun
Inflows						
Cash received from sales	2,600	2,800	3,100	4,600	4,800	5,200
Capital introduced	6,000	0	0	0	0	0
Total inflows	8,600	2,800	3,100	4,600	4,800	5,200
Outflows						
Inventory	1,500	850	950	1,300	1,350	1,400
Wages	2,200	2,200	2,200	2,200	2,200	2,200
Utilities	840	840	840	882	882	882
Loan repayments	0	284	284	284	284	284



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Miscellaneous	230	240	250	410	260	260
Total outflows	4,770	4,414	4,524	5,076	4,976	5,026
Net cash flow	3,830	(1,614)	(1,424)	(476)	(176)	174
Opening balance	500	4,330	2,716	1,292	816	640
Closing balance	4,330	2,716	1,292	816	640	814



Analysis of the cash flow forecast example

Executive Summary

- Overall, this cash flow forecast supports an application for the business to borrow £6,000 in January to cover the initial low inflows, significant outflows and negative net cash flow
- As sales increase from June, inflows are greater than outflows and the business has a positive cash flow
- Should a loan be approved, the business will require any short-term sources of finance, such as overdraft facilities

January

- The cash flow forecast assumes that the bank approves a £6,000 loan in January (capital introduced)
- The opening balance of £500 has been introduced by the owner
- The business is expected to achieve sales of £2,600
- Total inflows are therefore expected to be £8,600 (£2,600 + £6,000)
- Total outflows are expected to be £4,770
- The **Net Cash Flow** is expected to be £3,830 (£8,600 £4,770)
- January's closing balance is expected to be £4,330 (£3,830 + £500)

February

- The closing balance from January becomes the opening balance for February
- Sales of £2,800 as expected to be the business total inflows
- Total outflows are expected to be £4,414

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- The Net Cash Flow is expected to be -£1,614 (£2,800 £4,414)
- The closing balance is expected to be £2,716 (-£1,614 + £4,430) March
- The closing balance from February becomes the opening balance for March
- The business expects to achieve sales of £3,100 as its total inflows
- Total outflows are expected to be £4,524
- The Net Cash Flow is expected to be -£1,424 (£3,100 £4,524)
- The closing balance is expected to be £1,292 (-£1,424 + £2,716)

April

- The closing balance from March becomes the opening balance for April
- Sales of £4,600 are expected as the businesses total inflows
- Total outflows are expected to be £5,076
- The Net Cash Flow is expected to be -£476 (£4,600 £5,076)
- The closing balance is expected to be £816 (-£476 + £1,292)

May

- The closing balance from April becomes the opening balance for May
- The business expects to achieve sales of £4,800 as its total inflows
- Total outflows are expected to be £4,976
- The Net Cash Flow is expected to be -£176 (£4,800 £4,976)
- The closing balance is expected to be £640 (-£176 + £816)

June

- The closing balance from May becomes the opening balance for June
- Sales of £5,200 are the business total inflows
- Total outflows are expected to be £5,026
- The Net Cash Flow is expected to be £174 (£5,200–£5,026)
- The closing balance is expected to be £814 (£174 + £640)



Your notes

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Worked Example

Your notes

Here is a simple three-month cash flow forecast for a small seaside café

	March	April	May				
Inflows	Inflows						
Sales	46,000	54,000	61,000				
Outflows							
Inventory	13,000	13,000	13,000				
Wages	28,000	28,000	28,000				
Miscellaneous	3,500	4,000	4,000				
Total Outflows	44,500	45,000	45,000				
Net cash flow	1,500	9,000	16,000				
Opening balance	4,000	5,500	14,500				
Closing balance	5,500	14,500	30,500				

The café owner thinks that good weather will increase the volume of customers and decides to appoint another full-time assistant in March. As a result, wages increase to an expected £31,000 per month

Calculate the closing balances in the cash flow forecast resulting from the changes above. [4]

	March	April	Мау			
Inflows	Inflows					
Sales	46,000	54,000	61,000			
Outflows						
Inventory	13,000	13,000	13,000			
Wages	31,000	31,000	31,000			
Miscellaneous	3,500	4,000	4,000			
Total Outflows	47,500	48.000	48,000			

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Net cash flow	(1,500)	6,000	13,000
Opening balance	4,000	2,500	8,500
Closing balance	2,500	8,500	21,500

Answer:

Step 1: Insert the value of the new wages into the relevant space for each month

Step 2: Calculate the new total outflows for each month and insert them into the relevant space for each month

- March: £13,000 + £31,000 + £3,500 = 47,500
- April: £13,000 + £31,000 + £4,000 = 48,000 [1 mark]
- May: £13,000 + £31,000 + £4,000 = 48,000

Step 3: Calculate the new net cash flow for each month and insert it into the relevant space for each month

- March: $\pounds 46,000 \pounds 47,500 = -\pounds 1,500$
- April: £54,000 £48,000 = £6,000 [1 mark]
- May: £61,000 £48,000 = £13,000

Step 4: Calculate and insert the new closing balance for March and carry it forward as the opening balance for April

• $\pounds 4,000 + - \pounds 1,500 = \pounds 2,500$ [1 mark]

Step 5: Calculate and insert the new closing balance for April and carry it forward as the opening balance for May

- £2,500 + £6,000 = £8,500 [1 mark]
- Step 6: Calculate and insert the new closing balance for May
- £8,500 + £13,000 = £21,500 [4 marks for the correct answer] Note that this one change in the anticipated cost of wages impacts **four other variables 1.**Total

outflows 2. Net cash flow 3. Opening balance (except March) 4. Closing balance

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Examiner Tips and Tricks

When calculating opening and closing balances, work through each month in turn.

Always double-check your calculations in cash flow forecasts as one mistake will have a knock-on effect elsewhere and, in some cases, lead you to make inaccurate judgements.

Evaluating Cash Flow Forecasts

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- Cash flow forecasts provide insights into the expected inflows and outflows of cash over a specific period
- By analysing these forecasts over time, businesses can better plan and allocate their financial resources
- It is also important to recognise that cash flow forecasts have limitations

The Uses & Limitations of Cash Flow Forecasts

Disadvantages
 Forecasts are usually based on estimates and in reality inflows and outflows may differ significantly from
the estimates
 Cash flow forecasts require appropriate skills, insight, research
and time to prepare and update adequately
 External factors that can impact
inflows and outflows may not be
reflected in the cash flow forecast

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Examiner Tips and Tricks

Look for clues in the case study about the reliability of the forecast and draw some judgments on the reliability of the forecast presented.

New entrepreneurs find it especially difficult to create accurate forecasts as they have little experience to draw on. They often make use of free advice and guidance (e.g. from banks) or conduct significant research to support their forecasts. In these cases, the cash flow forecast is likely to be an excellent tool for planning. Where the cash flow forecast is constructed without such care it can hinder business progress and can undermine the business plan as a whole.



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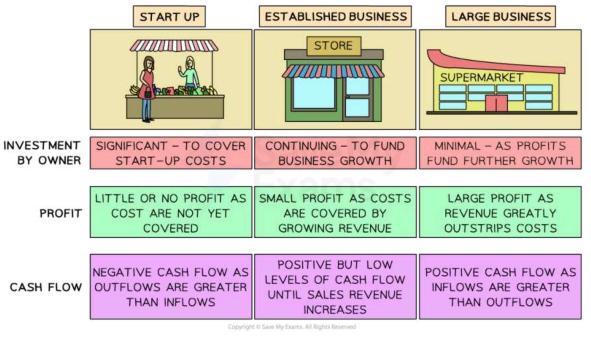
Strategies to Improve Cash Flow

Your notes

The Relationship Between Investment, Profit & Cash Flow

- Business investment involves the purchase of assets that are expected to create value over time
 - E.g the **purchase of new machinery** will improve productivity or quality which may allow the business to sell more items at a higher price and this **increases sales revenue**
- **Financial investment** may include the purchase of shares, bonds or property with the expectation that they will gain value over time
 - For some businesses this is an important **source of income** alongside their core business activities
 - E.g. US supermarket giant *Walmart* owns and leases over 10 thousand residential and commercial properties worldwide which act as as important **added revenue stream** for the brand
- Investment, profit and cash flow differ over the lifetime of a business

Diagram: cash flow and profit over time



Investment, profit and cash flow over the lifetime of a business

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Strategies to Improve Cash Flow

- The best way to improve cash flow is to manage the business better
 - Use cash flow forecasts to identify potential cash flow issues before they arise and take appropriate action
 - Budget effectively and consider adopting zero budgeting to carefully control spending
 - Set clear financial objectives and look for ways to reduce outflows and increase inflows wherever possible
 - E.g. Global **conglomerate** *3M*, maker of *Post-it Notes* announced in early 2023 that it intends to raise prices and cut about 6,000 jobs to improve its profits and cash flow position
- A business can also have too much cash
 - If a business is holding large amounts of cash it is likely to be missing out on the benefits of investing it in fixed assets or investments
 - This may represent a significant **opportunity cost** especially when interest rates are high

Methods to Improve Cash Flow

Method	Explanation
Reduce the credit period offered to customers	 Collecting money owed from customers more quickly will increase the level of current assets in the business However, customers may move to competing businesses that offer better credit terms
Ask suppliers for an extended repayment period e.g an extension from 60 to 90 days	 Current liabilities will not be reduced The business can use cash it would have paid to suppliers for other purposes Suppliers may be unwilling to extend credit terms
Make use of overdraft facilities or short- term loans	 Current liabilities will increase The business can spend more money than it has in its bank account Banks may be reluctant to lend to businesses with cash-flow problems

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Your notes

Sell off excess stock	 Less liquid current assets will be reduced and converted into more liquid forms of current asset (e.g. cash) Storage and security costs may also be reduced Stock may need to be sold at a low price to attract sales
Sell assets and lease fixed assets instead (e.g. sale & leaseback	 Both current assets and current liabilities will increase The business will continue to have the use of assets but must make regular payments to the leasing company
Introduce new capital and reduce drawings from the business	 Current assets will be increased New capital may be introduced by the owner or from additional investors This may result in the dilution of control of the business

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