ACCT7106 - Session #7: Reformulating the Financial Statements

PART 1 - Background

overarching objective: Assignment Project Exam Help

to conduct fundamental value for the purpose of estimating the 'intrinsic value' of a firm's common shares https://powcoder.com

- requires an understanding of the firm's value drivers
- ⇒ need to accumulate a 'tool kit' as the basis for developing the *pro forma Financial Statements*

Balance Sheet (B/S)

⇒ projected Income Statement (I/S)

over the forecast of Cash Flows (SCF)

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core inputs into the valuation model → x g

https://powcoder.com

$$V_0 = \sum_{t=1}^{\infty} \frac{x_t}{(1+k_t)^t} = \sum_{t=1}^{\text{Ard}} \frac{E(X_t) \text{Chat}_{P(Q_N)} \text{colder}}{(1+k)} + \frac{1}{k-g} \frac{1}{(1+k)^n}$$



STEP 1 **Understanding the past**

- Information collection
- **Understanding the business**
- **Accounting analysis**
- Financial ratio analysis
- **Cash flow analysis**

STEP 2 Forecasting the future

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- 2. Income Statement forecasts
- 3htBalance sheet foredasts.com
 4. Cash flow forecasts

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STEP 3 **Valuation**

- **Cost of capital**
- 2. Valuation models AE, FCF, D
- 3. Valuation ratios
- 4. Complications
 - a. Negative values
 - b. Value creation and destruction

Figure 1.1 Lundholm & Sloan, Framework for Equity Valuation

Stages of the Analysis

Stage 1 – Understanding the Business

- → 'Strategy Analysis'
- product market
- competition
- regulatory constraints
- business strategies
- technology

Assignment Project Exam Flage - Prospective Analysis: Valuation

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Stage 2 – Analysing Information

Accounting Analysis & Financial Analysis

- quality of accounting information
- reformulating the F/S to uncover business activities
- ratio and cash flow analysis

Stage 3 – **Prospective Analysis: Forecasting**

⇒ pro-forma

- Income Statement
- Balance Sheet
- Statement of Cash Flows



- Abnormal Earnings Model
- Alternative Valuation Models
- Statement of Cash Flows



Stage 5 – **Prospective Analysis: Application**

→ investment decision

investor – decision to buy, hold, sell

manager – decision to adopt strategy or not

external environment

- economic prospects
- macroeconomic factors
- socio-cultural forces
- political / regulatory

Analysis of Financial Statements

- understanding current F/S
- re-formulating the F/S
- accounting quality



- **Industry dynamics**
- → Porter's five forces

(suppliers, buyers, new entrants, substitutes, rivalry)

- analysts' reports
- management forecasts
- financial press
- ???

- Financial Statements AASB 101:
 - Balance Sheet
 - Income Statement and/or Statement of Comprehensive Income
 - Statement of Changes in Equity
 - Statement of Cash Flows
 - Notes to the financial statements

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- building blocks → definitions specific to accounting https://powcoder.com
- ➤ accounting principles → AASB / IFRS rules to guide accounting decisions/choices
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- recognition (item to F/S) versus disclosure (notes)
- 'accountability' & 'stewardship'
 - 'accountability' → preservation by management of the resources entrusted to them
 - 'stewardship' → efficient use by management of resources entrusted to them (earning a return)

'articulation' → Financial Statements constitute an 'integrated system'

Cash Flow Statement

Cash from operations

- + Cash from investing
- + Cash from financing
- = Net change in cash

Assignment Project Exam Help Statement of Changes in S/E

https://powcoder.com

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= Net Change in S/E

Ending Balance Sheet

ending stock

Cash

- + Other assets
- = Total Assets
- Liabilities
- = Shareholders' Equity (BV_t)

Income Statement

Revenue

- Expenses
- = Net Income (NPAT)

+ Other assets

= Total Assets

- Liabilities

= Shareholders' Equity (BV_{t-1})

Beginning Balance Sheet

Cash

pro forma Income Statement

	2019	2020	2021E	2022E	2023E
Sales	38,176	37,408	± ?	± ?	± ?
Other operating revenue	288	376			
Cost of sales	(29,253)	(28,043)	±?	±?	±?
Other income As		Proj e €t Ex			
Administrative expenses	(8,031) https://p	(8,081) owcoder.c	±?	± ?	± ?
Other expenses	(1 4 6) .// P	owcouci.c	OIII		
Share - equity investments	Add We	Chat ⁶ powc	coder		
Financing costs	(42)	(443)	± ?	± ?	± ?
Income tax expense	(347)	(341)	± ?	± ?	± ?

caution - for 'clean surplus' and consistent estimates, the accounting system must reconcile

⇒ 'articulation': must concurrently develop the pro forma B/S and SCF

PART 2 - Reformulation

Objectives:

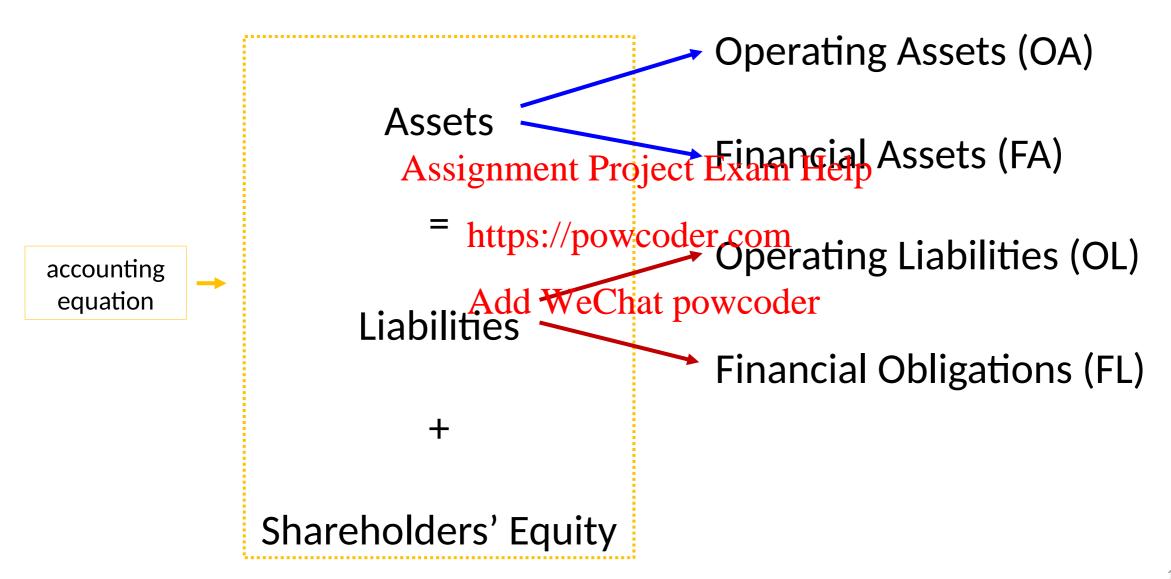
- separate operating activities from financing activities
 - Operations: buying and selling goods and services
 - Financing: the company's use of debt and equity to finance its operations, as well as the company's investment in Filancial assets roject Exam Help

Why separate? industrial companies c

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- alter several accounting classifications
- for the Income Statement, separate revenues and expenses based on their <u>driver</u> (sales volume or other), and whether they are recurring or non-recurring

Balance Sheet Reformulation



Step #1 - Operating Assets (OA) versus Financial Assets (FA)

- Operating Assets (OA) assets used in selling goods and services (the company's business)
- Financial Assets (FA) assets used to invest excess cash (investments not tied to the business)

two broad criteria:

- o nature of the itemsitiselfment Project Exam Help
- function of the item in the company's operations

- https://powcoder.com typical indicators of Financial Assets (FA) (none are decisive on their own):
 - the item is financial nature, such and extremental model control of the state of th
 - typically measured at fair value e.g., investments in debt or equity
 - typically earn interest or dividends for the company
 - the asset is not integrated into the company's operations
- separating operating cash (OA) and financial cash (FA) is a matter of judgement (e.g., 0.5% of sales revenue)

Step #2 - Operating Liabilities (OL) versus Financial Obligations (FO)

- Operating Liabilities (OL) liabilities associated with selling goods and services (the company's business)
- Financial Obligations (FO) sources of financing other than CSE (basically debt)
- typical indicators of Financial Obligations (FO):

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 the company pays interest on them and has an obligation to repay
 - most are measured at amortised total or repel which the com
 - the liability is not integrated with the company's operations
- Add WeChat powcoder items for reclassification
 - dividends payable treat as part of S/E
 - preference shares treat as a financial obligation (FO) and dividend as a financial expense
 - derivative securities given the challenges of specifically confirming the nature of each contract, we will treat 'derivative financial assets' as FA and 'derivative financial liabilities' as FO
 - leases under AASB16, all leases recognised as finance leases \rightarrow lease assets treated as operating assets, lease obligations as financial obligations, and lease interest as a financial expense

re: Coles

	CONSOL	IDATED
	28 JUNE 2020	30 JUNE 2019
NOTES	\$M	\$M

Current assets				
Cash and cash equivalent	signment	Project Exam Help	940	OA / FA (0.5%)
Trade and other receivables	2.2	434	360	OA (after checking note)
Inventories	https://p	owcoder com	1,965 -	OA (after checking note)
Income tax receivable	Add Wa	eChat powcoder		FA
Assets held for sale	5.2 V	75	94 -	OA (after checking note)
Other assets	2.3	70	47 →	OA (after checking note)
Total current assets		3,779	3,406	

	_			
		28 JUNE 2020	30 JUNE 2019	
	NOTES	\$M	\$M	
Non-current assets				
Property, plant and equipment	2.5	4,127	4,119	OA (after checking note)
Right-of-use assets Ass	ignment	Project Exam	n Help →	OA (after checking note)
Intangible assets	2.6	1,597	1,541→	OA (after checking note)
Deferred tax assets	https://p	powcoder.con	365	OA (after checking note)
Equity accounted investments	Adalw	eChat powcoo	der 212→	OA (after checking note)
Other assets	2.3	120	134-	OA (after checking note)
Total non-current assets		14,570	6,371	

		CONSOL	IDATED		* Note 2.9 reveals that 2019 'provisions' include amounts
Liabilities		28 JUNE 2020	30 JUNE 2019		for 'lease provisions' ≡ FO
Current liabilities	NOTES	\$M	\$M		
Trade and other payables	2.8	3,737	3,380	-	OL (after checking note)
Provisions	2.9	861	743	-	OL/FO (after checking note)
Lease liabilities	Assionme	ent Project ⁸ Ex	am Heln	→	FO (after checking note)
Other	7 10015111110	198	168	-	OL (assumed)
Total current liabilities	https:	://powco 6l,68.1 c	om 4,291		
	Add Y	WeChat powe	roder		
Non-current liabilities	Hud	vi cenat pow			
Interest-bearing liabilities	3.1	1,354	1,460	-	FO (after checking note)
Provisions	2.9	472	598	-	OL/FO (after checking note)
Lease liabilities	2.7	8,198	-	-	FO (after checking note)
Other		29	71	-	OL (assumed)
Total non-current liabilities		10,053	2,129		
Total liabilities		15,734	6,420		16

Reformulation Summary - Coles

	2020	2019			2020	2019
OA	17,502	9,028		FA	847	749
OL	<u>5,297</u>	Assignmen	t Pro	j EO t Exam H	[elp 10,437	<u>112</u>
		https://	pow	NFO coder.com	9,590	(637)
				S/E	<u>2,615</u>	<u>3,357</u>
NOA	12,205	2,720	CCII	at powcoder NFO + S/E	12,205	2,720

^{**} The reported 2019 figures are *NOT* directly comparable with the reported 2020 figures because of the adoption of AASB 16 (leases) which brought lease commitments into the B/S as both 'right of use assets' and 'lease liabilities'

PART 3 - Income Statement Reformulation

- overview reformulation of the AASB/IFRS Income Statement <u>and</u> Statement of Comprehensive Income into a Reformulated Income Statement such that it:
- 1. divides Income Statement items into operating versus financing activity related
- 2. further divides operating income into the items are recurring and driven by sales

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- 3. reallocates income tax expense to remove the tax effects of debt financing/financial assets
- 4. divides OCI into operating and financing aspects

Process (as per schema on the next slide) -

Step #1: divide every line item in the Income Statement between operating and financing

Step #2: divide operating items into:

- core operating income from sales
- core other operating income Assignment Project Exam Help
 unusual operating income

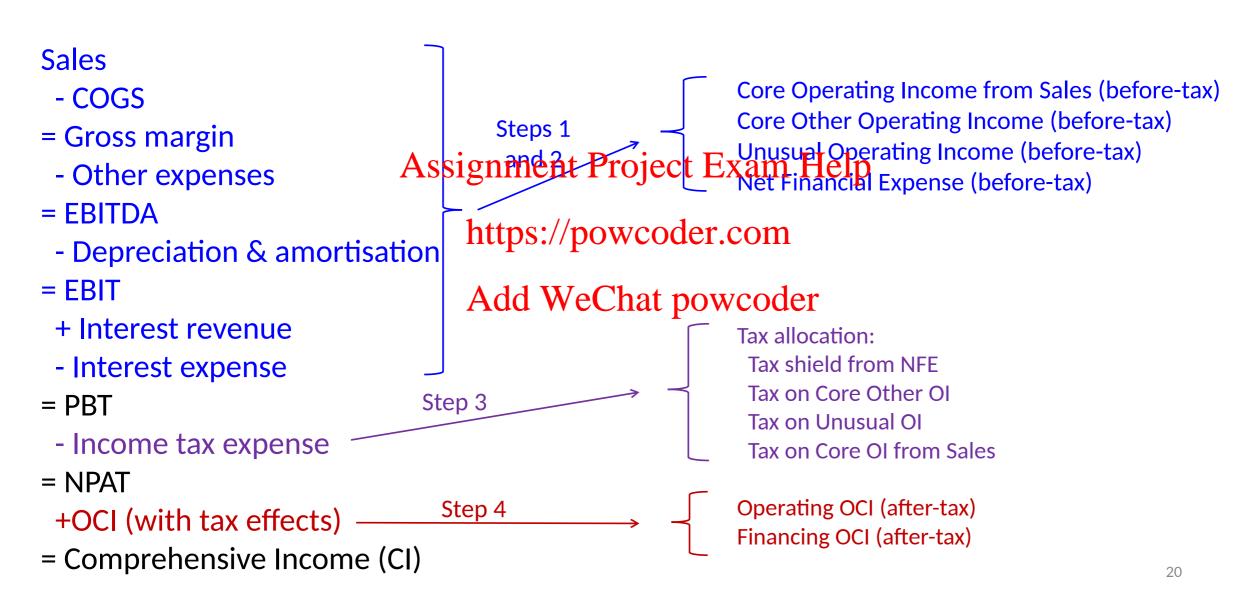
Step #3: divide income tax expense between:

- core operating income from the WeChat powcoder
- core other operating income
- unusual operating Income
- net financial expense (or net financial income)

Step #4: divide OCI items (after-tax) between operating and financing

AASB/IFRS Income Statement & Statement of Comprehensive Income

Reformulated Income Statement



Step #1: divide every line item in the Income Statement between operating and financing

- ☐ Operating items revenues/expenses (or gains/losses) related to the company's operations
- ☐ Financing items revenues/expenses (or gains/losses) related to the company's financing activities
 - consider information in the notes and the company's operating model (judgement)
 - o try to be consistent in how you reformulate the B/s and P/s

https://powcoder.com

Step #2: divide 'operating items' into WeChat powcoder

- core operating income from sales → recurring operating income related to the company's main operations (driven by sales volume) e.g., sales, COGS, wage expense
- core other operating income → recurring operating income that is not related to the company's main operations (not driven by sales volume)
- unusual operating income → non-recurring (one-time) operating income

		CONSOL	IDATED	
		YEAR ENDED	YEAR ENDED	
		28 JUNE 2020	30 JUNE 2019	
	NOTES	\$M	\$M	
Continuing operations				
Sales revenue	1.3	37,408	38,176	Core OI from sales
Other operating revenue		376	288 -	Core other OI
Total operating revenue		37,784	38,464	
Cost of sales		(28,043)	(29,253)	Core OI from sales
Gross profit	mont I)	vom Éfila	
Other income ASSIGIII	nem r	Tojecե	xam Help	Core other OI
Administration expenses	1.4	(8,081)	(8,031)	Core OI from sales & Unusual OI*
Other expenses http	os://pc	wcoder.	com (146)	Core financing expense (NFE)
Share of net (loss) / profit of equity accounted investments	5.1	(6)	5 -	Core other OI
Earnings before interest and tax (EBIT)	1 777	1,762	1,467	
Financing costs Ad	d We(Chat pow	vcoder(42)-	Core financing expense (NFE)
Profit before income tax		1,319	1,425	
Income tax expense	1.6	(341)	(347)	Step #3
Profit for the year from continuing operations		978	1,078	
Discontinued operations				
Profit from discontinued operations after tax	5.3	-	357	Unusual OI (also Step #3 re: tax)
Profit for the year		978	1,435	

^{*} Note 1.4 indicates that 'Administrative expenses' include an 'impairment reversal' of \$41 million in 2020 and an 'impairment expense' of \$42 million in 2019 ** 'Unusual OI'

Summary - Coles reformulated Income Statement (following Steps #1 & #2)

	2020	2019
Core OI from Sales (before tax)	1,243	934
Core Other OI (before tax)	478	721
Core OI (before tax) Assignment	Project Exam Help	1,655
	41 owcoder.com (443)	315
		(188)
Add We versus reported profit before tax from t	eChat powcoder the I/S	* 2020 reconciles; 2019 does NOT = 'profit from discontinued operations after tax' = 357
	2020	2019
Profit before tax	1,319	1,425

Step #3: divide income tax expense between:

- core operating income from sales
- core other operating income
- unusual operating Income
- net financial expense (or net financial income)

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https://powcoder.com

Note: Australia has a stated corporate tax rate of 30% (for large companies)

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⇒ we will use the 30% rate for the disaggregation process above

(while the true tax rate is rarely exactly 30% for most companies, the staged approach that we adopt will accommodate the differences)

- 'Staged approach' → allocation tax in the reverse order, with the tax expense deemed to be associated with core operating income from sales calculated as the residual amount i.e.,
- 1st calculate the debt tax shield (extra tax) associated with NFE (NFI) = NFE x 30% (or NFI x 30%)
- 2nd calculate tax expense/**deskigtion estoPiatjectvittx blmutilel** poperating Income = Unusual OI x 30% https://powcoder.com
- 3rd calculate tax expense/deduction associated with Core Other Operating Income = Core Other OI x 30% WeChat powcoder
- 4th calculate tax expense associated with Core Operating Income from Sales
 = Income tax expense + Tax shield from NFE (-Extra tax paid on NFI) Tax expense
 (+deduction) from Unusual OI Tax expense (+deduction) from Core Other OI

To illustrate, consider the following reformulated Income Statement:

Core Operating Income from Sales 300

Core Other Operating Income 200

Unusual Operating Income 100

Net Financial Expenses (200)

Profit Before Tax 400

Tax Expense Assignment Project Exam Help

Net Profit After Tax (NPAT) https://pow270der.com

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⇒ allocation of the tax expense -

 1^{st} tax shield from Net Financial Expenses = 0.30 * 200 = 60

 2^{nd} tax on Unusual Operating Income = 0.30 * 100 = 30

 3^{rd} tax on Core Other Operating Income = 0.30 * 200 = 60

 \rightarrow 4th tax on Core Operating Income from Sales = 130 + 60 - 30 - 60 = 100

Aside - why is the tax allocation associated with Net Financial Expenses added back?

- interest expense is tax deductible whereas dividends are paid out of after-tax income
 - → Net Financial Expenses provide a 'tax shield' (i.e., they reduce taxes)

to illustrate,	<u>A – no debt</u>	<u>B - debt</u>
Operating Income As	ssignment Project Exam Help	1,000
Net Financial Expenses	https://powcoder.com	<u>(400)</u>
Profit Before Tax	https://powco de r.com 1,000	600
Tax Expense @ 30%	Add WeChat(600)coder	<u>(180)</u>
Net Profit After Tax	700	420

- \Rightarrow for B, debt provides a 'tax shield' of 120 (= 0.30*400)
 - → the 'true' tax expense on Operating Income is 300 (= 180 + 120)

PART 4 – further illustration

Sales Revenue	2,000	Core Operating Income from Sales
Rental Income	<u>20</u>	Core Other Operating Income
Total Revenue	2,020	
Cost of Goods Sold	(1,000)	Core Operating Income from Sales
Wage Expense	(250)	Core Operating Income from Sales
Advertising Expense	(50)	Core Operating Income from Sales
Interest Income Share of profit from equity-accounted investments	t Project Ex	Net Financial Expense
Share of profit from equity-accounted investments	10	Core Other Operating Income
Gain on sale of property https://	nowcoder co	Unusual Operating Income
Restructuring charges	(10)	Unusual Operating Income
EBITDA Add W	eChatopowc	coder
Depreciation & Amortisation	(250)	Core Operating Income from Sales
EBIT	520	
Interest Expense	<u>(100)</u>	Net Financial Expense
Profit Before Tax (PBT)	420	
Tax Expense @ 30%	<u>(126)</u>	
Net Profit After Tax (NPAT)	294	

\Rightarrow reformulated

Core Operating Income from Sales (be	efore tax)		
Sales	2,000		
COGS	(1,000)		
	• • • • • • • • • • • • • • • • • • • •		
Wage expense	(250)		
Advertising expense	(50)		
Depreciation & Amortisation	(250)	450	
Assi	ignment Project Exam Ho	elp	
Core Other Operating Income (bef	ore tax)	•	
Rental income	https://powcoder.com		
Share of profit from equity-accour		30	
	Add WeChat powcoder		
Unusual Operating Income (before			
Gain on sale of property	30		
Restructuring charges	<u>(10)</u>	20	
Net Financial Expenses (before tax	·)		
Interest expense	(100)		
Interest income	_20_	(80)	420 = PBT

Tax Allocation:

$$2^{\text{nd}}$$
 tax on Unusual Operating Income = 0.30 * 20 = 6

$$3^{rd}$$
 tax on Core Other Operating Income = 0.30 * 30 = 9

https://powcoder.com

Core Operating Income from Sales (after tax)
$$450 - 135 = 315$$

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Core Other Operating Income (after tax)
$$30 - 9 = 21$$

Unusual Operating Income (after tax)
$$20 - 6 = 14$$

Net Financial Expenses (after tax)
$$(80) + 24 = (56)$$
 $294 = NPAT$

Step #4: divide Other Comprehensive Income items (after-tax) between operating and financing

- typical operating OCI items:
 - FX translation gain/loss
 - actuarial gain/loss on defined benefit plans
 - revaluation of PPE
- typical financial OCI items:
 - o gain/loss from fair value skappenine finta Roid jascet Ethatigo Hickelph OCI
 - gain/loss from cash flow hedges and fair value hedges
 - o gain/loss from fair value chahgepig:f/paggial coldgationsm

Coles

note – tax effect on OCI item is provided

cash flow hedge

→ financial OCI

Add WaChat marriaged an		28 JUNE 2020	30 JUNE 2019
Add WeChat powcoder	NOTES	\$M	\$M
Profit for the year		978	1,435
Other comprehensive income			
Items that may be reclassified to profit or loss:			
Net movement in the fair value of cash flow hedges		(17)	(2)
Income tax effect	1.6	5	1
Other comprehensive loss which may be reclassified			
to profit or loss in subsequent periods		(12)	(1)
Total comprehensive income attributable to:			
Equity holders of the parent entity		966	1,434
Total comprehensive income from continuing operations attributable to:			
Equity holders of the parent entity		966	1,077

Returning to the previous illustration, now extended to include a series of OCI items

NPAT		294		
Other Comprehensive Inco	me			
Asset revaluation		40	→	operating
tax effect	riganae fil Project Exam I	Polp (6)	→	financing
loss on re-measurement of tax effect	https://powcoder.com defined benefits plan Add WeChat powcode	$\binom{10}{r^3}$	→	operating
Total OCI	_	<u>47</u>		
Comprehensive Income		341		

Core Operating Income from Sales (after tax) 450 - 135 = 315

Core Other Operating Income (after tax) 30 - 9 = 21

Unusual Operating Income (after tax) 20 - 6 = 14

Net Financial Expenses (after tax) (80) + 24 = (56)

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Operating OCI (after tax) $\frac{40 - 10 + 3}{\text{https://powcoder.com}} = 33$

Financing OCI (after tax) 20 - 6 = 14

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Total Operating Income (after tax) =
$$315 + 21 + 14 + 33$$
 383

Comprehensive Income (after tax) 341

Coles reformulated Income Statement

	2020	2019	
Core OI from Sales (before tax)	1,243	934	
Core Other OI (before tax)	478	721	
Unusual OI (before tax) Assignmen	nt Project ⁴ Exam Hel	.p 315**	
	(443) /powcoder.com	(188)	
	VeChat powcoder	347	
OCI - cash flow hedge	(17)	(2)	
tax effect	5	1	

315** ⇒ 357 'profit from discontinued operations after tax' – 42 'impairment expense' re: discontinued note 5.3 → profit before tax = 509; tax expense = 152

re: 2020

```
1<sup>st</sup>
        tax shield from Net Financial Expenses
                                                      = 0.30 * 443
                                                                     = 132.9
                                                      = 0.30 * 41
                                                                     = 12.3
 2<sup>nd</sup>
        tax on Unusual Operating Income
 3<sup>rd</sup>
        tax on Core Other Operating Income
                                                      = 0.30 * 478
                                                                    = 143.4
                                                      = 341 + 132.9 - 12.3 - 143.4 =
 4<sup>th</sup>
        tax on Core Operating Income from Sales
 318.2
Core Operating Income from Signant Project Examulaely 8.2 =
                                                                       924.8
Core Other Operating Income (after tax) owcoder.com - 143.4
                                                                       334.6
Unusual Operating Income (after tax)
                                                                        28.7
                                                     41 - 12.3
Net Financial Expenses (after tax)dd WeChat powcoder + 132.9 =
                                                                       (310.1)
                                                     (17) + 5
Financing OCI (after tax)
                                                                         (12)
```

Total Operating Income (after tax) = 924.8 + 334.6 + 28.7
 Total Net Financial Expense (after tax) = (310.1) + (12)
 Comprehensive Income (after tax)

re: 2019

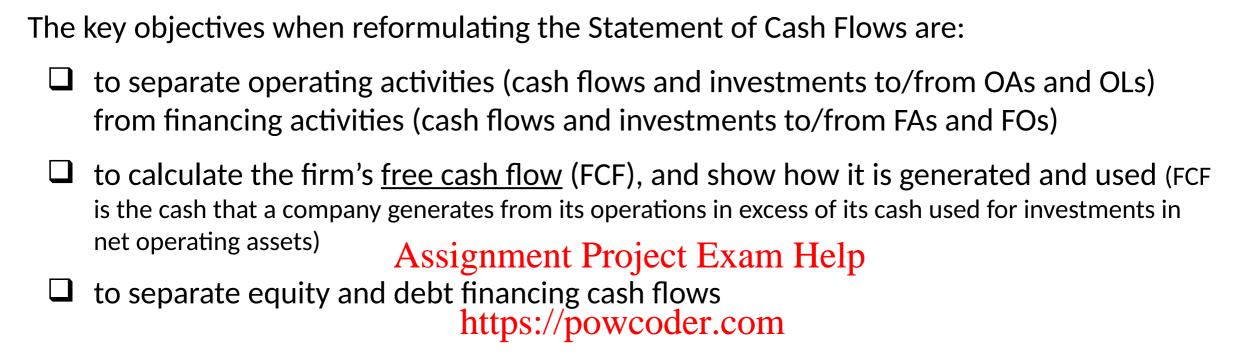
```
= 0.30 * 188
 1<sup>st</sup>
        tax shield from Net Financial Expenses
                                                                     = 56.4
 2<sup>nd</sup>
                                                      = 0.30 * 42
                                                                     = 12.6
        tax on Unusual Operating Income
 3<sup>rd</sup>
        tax on Core Other Operating Income
                                                      = 0.30 * 721 = 216.3
 4<sup>th</sup>
        tax on Core Operating Income from Sales
                                                      = 347 + 56.4 + 12.6 - 216.3 =
 199.7
Core Operating Income from Signante Project Exam Help.7
                                                                               734.3
Core Other Operating Income (after tax) owcoder.com - 216.3
                                                                               504.7
Unusual Operating Income (after tax) (42 - 12.6) + 357
                                                                               327.6
Net Financial Expenses (after tax)dd WeChat powcoder + 56.4
                                                                              (131.6)
                                                     (2) + 1
Financing OCI (after tax)
                                                                                (1)
       Total Operating Income (after tax) = 924.8 + 334.6 + 28.7
                                                                           1,566.6
       Total Net Financial Expense (after tax) = (131.6) + (1)
                                                                           (132.6)
       Comprehensive Income (after tax)
                                                                            1,434
```

PART 5 - Reformulation of the Statement of Cash Flows

Coles Group Limited 2020 Annual Report

The IFRS / AASB SCF (direct method) has the following basic structure –	; ; ;
Cash Flow from Operations (gropent	Proj
https://p	owc
Cash Flow from Investing (CFI)	Cha
	!
Cash Flow from Financing (CFF)	F
=	1
Change in Cash & Cash Equivalents	F
	r

		28 JUNE 2020	30 JUNE 2019
	NOTES	28 JUNE 2020 \$M	30 JUNE 2019 \$M
Cash flows from operating activities		****	
Receipts from customers		39.971	41.126
Receipt from Viva Energy		-	137
Payments to suppliers and employees		(36,486)	(38,665)
Interest paid		(37)	(33)
Interest component of lease payments		(399)	-
Acto He am Help		7	4
ICCULA AIII IICIP		(504)	(294)
Net cash flows from operating activities	2.1	2,552	2,275
Cash flows used in investing activities			
Construction of a part and equipment and intangibles		(833)	(1,104)
Proceeds from sale of property, plant and equipment		211	288
Proceeds from sale of controlled entities		-	544
Net investments in joint venture and associate	5.1	(11)	(6)
cqlist or divocity (i) (i) (ii) (o cusi liesses, net of cash acquired		(25)	(2)
Net eash flows used in investing activities		(658)	(280)
Cash flows used in financing activities			
Proceeds from borrowings		5,120	10,260
Repayment of borrowings		(5,226)	(8,800)
Proceeds from borrowings with related parties		-	170
Repayment of borrowings with related parties		-	(3,678)
Payment of principal component of lease payments		(846)	-
Distributions to Wesfarmers		-	(320)
Redemption of redeemable preference shares		-	1,322
Dividends paid		(873)	-
Capital return		-	(538)
Purchase of shares under Equity Incentive Plan		(17)	(27)
Net cash flows used in financing activities		(1,842)	(1,611)
Net increase in cash and cash equivalents		52	384
Cash at the beginning of the financial period	2.1	940	556
Cash at the end of the financial period	2.1	992	940



note: unlike the I/S, we are not doing a 'full' reformulation of the CF statement but rather just fixing several "classification problems"

why? the AASB/IFRS cash flow statement is also already formulated to separate financing cash flows from operating/investing cash flows the SCF is not as important as the I/S and the B/S are for valuation

Reformulated Statement of Cash Flows

Adjusted Cash flow from operations Generation of FCF **Adjusted** Cash investment in operating assets from operating activities Free Cash Flow (FCF) Assignment Project Exam Help **Equity financing flows** https://poweoder.com dividends & share repurchases share issuances Add WeChat powcoder Debt financing flows net purchase of financial assets (XX)'Uses' of FCF in interest on financial assets (after tax) XX financing activities net issue of debt XX interest on debt (after tax) (XX) E + FTotal Financing cash flows

Generation of Free Cash Flow (FCF) = C + I

- → cash generated by operations less cash used for investment in operating assets
- adjusted cash flow from operations (C): cash receipts/payments related to the company's operations (operating assets and operating liabilities)
- adjusted cash flow from investing (I): cash receipts/payments related to investments in long-term operating assets (e.g.appagrinteenibles of evitification) Help

note: all of these cash flows are related to not operating assets (NOA)

- FCF > 0 ⇒ the company has spare (or 'free') cash that can paid out to shareholders and financial obligations, or invested in financial assets
- FCF < 0 ⇒ the company's operations are not generating enough cash to fund its current investments in net operating assets
 - → the company will need to raise capital from shareholders and financial obligations, or by selling financial assets

Uses of Free Cash Flow (FCF) = E + F:

- **Equity financing cash flows (E):** cash transactions with shareholders (dividends, share repurchases, and share issues)
- Debt financing cash flows (F):
 - o cash receipts/payments related to financial obligations (FO) e.g., proceeds from borrowings/repayment of borrowings/repaymen
 - of short-term investments/purchase of Short-term investments, and interest received

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note: all of these cash flows are related to net financial obligations (NFO) and shareholders' equity (S/E)

"classification problems" requiring adjustment -

- interest paid/received
- investments in financial assets
- separation of 'cash & cash equivalents' into 'investment in operating cash' and 'investment in financial salamment Project Exam Help

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re: net interest received / paid Add WeChat powcoder

- should be classified as a debt financing use of cash (F) interest received is clearly related to FAs and interest paid is clearly related to FOs
- any reclassification must adjust for tax effects (i.e., remove tax shields)

re: investments in financial assets

- under AASB / IFRS, these items typically appear under CFI
- they are related to debt financing activities (not operating assets), and must be reclassified as debt uses of cash (F)

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re: operating versus financial cash https://powcoder.com

- in reformulating the B/S, 'cash & cash equivalents' were separated into 'operating cash' (an operating asset, OA) and 'financing cash' (a financial asset, FA) 'rule of thumb'
 = 0.5% of sales revenue
- given this separation
 - the change in 'operating cash' should be included in I
 - the change in 'financing cash' should be included in F

Illustration – reformulate the following

AASB Statement of Cash Flows

assuming

- 30% tax rate
- split in 'cash * cash equivalents' of
 - 30 *re*: operating cash
 - 300 *re*: financing cash

Cash Flow from Operations (CFO)

cash receipts from customers	2,400
payments to suppliers	(1,000)
payments to employees	(500)
rent paid	(100)
interest received	10
interest paid	(100)
income tax paid	<u>(180)</u>
ignment Project Exam Help	530
Cash Flow from Investing (CFI)	
https://powcoder.com purchase of short-term investments	(100)
payments for PPE	(200)
Add WeChat powcoder	(300)
Cash Flow from Financing	
dividends paid	(150)
shares issued	50
proceeds from borrowings	<u>200</u>
Net CFF	100
Change in Cash & Cash Equivalents	330

Reformulated Cash Flow Statement

<u>Free Cash Flow:</u>	<u>Uses of Free Cash Flow:</u>		
Adjusted CFO = C		Debt financing cash flows = F	
reported CFO	530.0	net interest paid (after tax)	(63.0)
interest received	(10.0)	proceeds from borrowings	200.0
interest paid	100.0 Propert Pro	oject Exam Help	(100.0)
tax shield = $(10 - 100) * 0.30$	(<u>27.0)</u>	investment in financing cash	(300.0)
Adjusted CFO (C)	http593/pow	collet financing cash flows (F)	(263.0)
Adjusted CFI = I:	Add WeCh	atequity Goal cing cash flows = E	
reported CFI	(300.0)	dividends paid	(150.0)
purchase of short-term investments	100.0	shares issued	50.0
investment in operating cash	(30.0)	Equity financing cash flows (E)	(100.0)
Adjusted CFI (I)	(230.0)		
FCF = C + I = 593 - 230	363.0	FCF = E + F	(363.0)

Coles Group Limited 2020 Annual Report

Cash flows from operating activities					
Cash flows from operating activities		20.073	41.107		
Receipts from customers		39,971	41,126		
Receipt from Viva Energy		-	137		
Payments to suppliers and employees		(36,486)	(38,665)		
Interest paid		(37)	(33)	\rightarrow	F
Interest component of lease payments		(399)	-	\rightarrow	F
Interest received	_	7	4	\rightarrow	F
Income tax paid Assignment Proj	ect Exam	Help(504)	(294)		-
Net cash flows from operating activities	2.1	2,552	2,275		
Cash flows used in investing activities https://powc	oder.com				
Purchase of property, plant and equipment and intangibles		(833)	(1,104)		
Proceeds from sale of property, plant and equipment dd WeCha	t nowcode	ar 211	288		
Proceeds from sale of controlled entities	it poweodi	-	544		
Net investments in joint venture and associate	5.1	(11)	(6)	\rightarrow	13 E:
Acquisition of subsidiaries or businesses, net of cash acquired		(25)	(2)		10 L,
Net cash flows used in investing activities		(658)	(280)		

	<u>2020</u>	<u>2019</u>
cash & cash equivalents	992	940
Sales revenue	37,408	38,176
'operating cash' @ 0.5%	187	191
→ 'financing cash'	805	749

Cash flows used in financing activities				
Proceeds from borrowings		5,120	10,260	
Repayment of borrowings		(5,226)	(8,800)	Dobt
Proceeds from borrowings with related parties		-	170	_ Debt (D)
Repayment of borrowings with related pariss 1	gnment Project Exam He	elp -	(3,678)	(D)
Payment of principal component of lease paym	-	(846)		
Distributions to Wesfarmers	https://powcoder.com	-	(320)	
Redemption of redeemable preference shares	1 1	-	1,322	F a: 4
Dividends paid	Add WeChat powcoder	(873)	-	Equity (5)
Capital return	riad Weenat poweoder	-	(538)	(E)
Purchase of shares under Equity Incentive Plan		(17)	(27)_	
Net cash flows used in financing activities		(1,842)	(1,611)	

Reformulated <u>Coles 2020</u> Cash Flow Statement

Free Cash Flow:

Uses of Free Cash Flow:

Adjusted CFO = C		Debt financing cash flows = F	
reported CFO	2,552	net interest paid (after tax)	(300)
interest received	(7)	proceeds from borrowings	5,120
interest paid	·	repayment of borrowings	(5,226)
interest – lease payments	Assignment Proje	repayment of borrowings ectation less principal	(846)
tax shield = (7 – 429) * 0.30	http (129) owc	investment in financing cash oder com Debt financing cash flows (F)	<u>(56)</u>
Adjusted CFO (C)	2,032		(1,308)
	Add WeCha	t powcoder Equity financing cash flows = <i>E</i>	
Adjusted CFI = I:		Equity financing cash flows = E	

Adjusted	CFI =	l :
-----------------	-------	------------

reported CFI	(658)	dividends paid	(873)
investment in operating cash	4	share-based payment expense	13
share-based payment expense	<u>(13)</u>	shares purchased	<u>(17)</u>
Adjusted CFI (I)	(667)	Equity financing cash flows (E)	(877)

$$FCF = C + I$$

$$FCF = E + F$$

PART 6 - Reformulation of the Statement of Changes in Owners' Equity

Basic objectives of the reformulation exercise

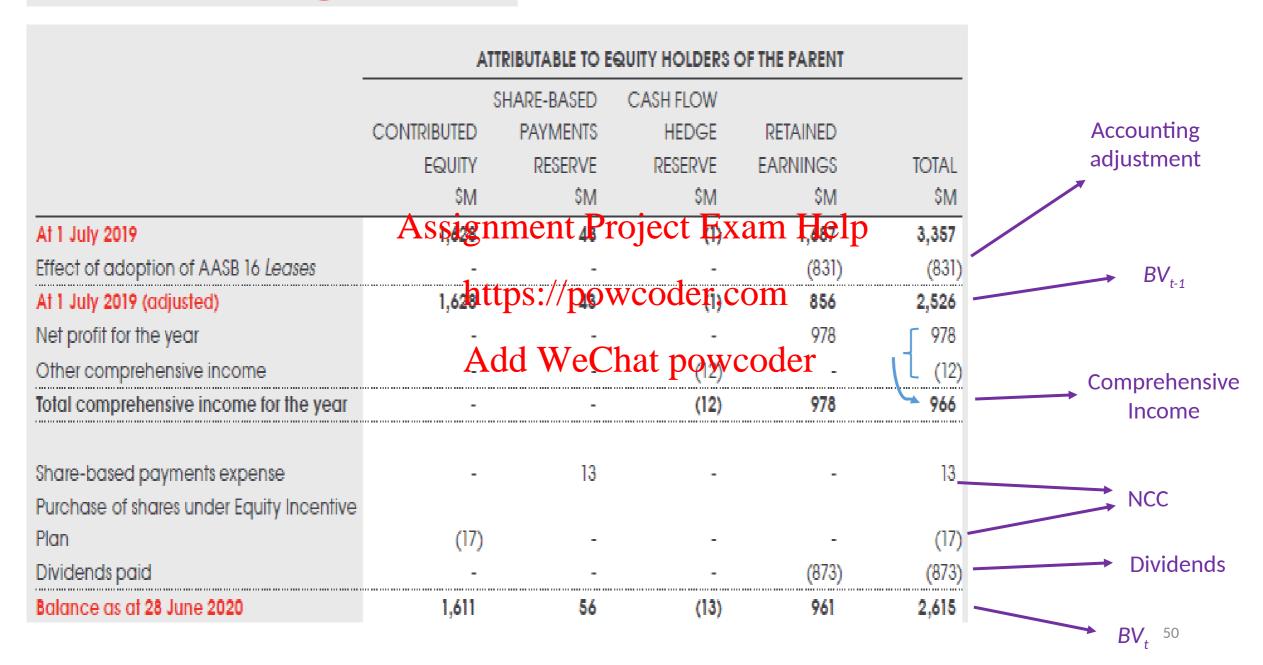
- separate transactions with shareholders (E) (equity financing) and comprehensive income (CI) (operating income and debt financing)
- fix some classification as plant with project upting Help

aside: basic reclassifications https://powcoder.com

- o preference shares remove from set halances and add to financial obligations (FO)
- non-controlling interest group with S/E (for our purposes)
- dividends payable / dividends declared adjust S/E balances and remove from FO

note: the 'clean surplus' relation is based on Comprehensive Income (CI) and not NPAT

Statement of Changes in Equity



Reformulated Statement of Changes in Shareholders' Equity

Beginning Book Value of Common Equity

 BV_{t-1}

- + Net effect of Transactions with Common Shareholders
 - + capital contributions (share issues)
 - share repurchases
 - cash dividends to common sing remotates Project Exam Help
 - = Net cash contributions

https://powcoder.com

- + Effect of operations and non-equity financing
 - + Net Income (from the I/S) Add WeChat powcoder
 - + Other Comprehensive Income (OCI)
 - preferred share dividends
 - = Comprehensive income available to common shareholders

Ending Book Value of Common Equity

 BV_{t}

PART 7 - Reformulation Summary

'new' (reformulated) accounting relations:

- **Balance Sheet:** NOA = NFO + S/E
- CI = OI (after tax) + NFE (after tax) **Income Statement:**
- Assignment Project Exam Help

 t: FCF = C + I = F + E
- **Cash Flow Statement:**
- https://powcoder.com Change in S/E = CI + E **Equity Statement:**

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note, within this formulation, NFE will be a negative number, and E will be a negative number if the only material net equity financing item is the payment of dividends

Now turn to consider the relations across the reformulated statements (insights provided)

- o from the reformulated B/S
 NOA = NFO + S/E

 \triangle NOA = \triangle NFO + \triangle S/E

- from the reformulated equity statement $\triangle S/E = CI + E$
 - combining

$$\triangle$$
NOA = \triangle NFO + \triangle S/E = \triangle NFO + CI + E

- assume from the reformulated SCF F = NFE (after tax) + $\triangle NFO \rightarrow \triangle NFO = F NFE$ (after tax) tax)
 - $\triangle NOA = \triangle NFO + CI + E = F NFE (after tax) + CI + E$

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from the reformulated I/S

$$Cl = Ol (after tax) + NFE (after tax)$$

- \triangle NOA = F NFE (after tax) + CI + E = OI (after tax) + (F + E)
 - \triangle NOA = OI (after tax) + FCF

or rearranging FCF =
$$\triangle$$
NOA - OI (after tax)

 \triangle NOA = OI (after tax) + FCF

note – this relation creates an important theoretical link between the cash flow statement and the income statement/balance sheet

note, through a similar algebraic process, it is also possible to show: $\triangle NFO = FCF - NFE - E$ additionally, from the equity statement and the clean surplus relation, $\triangle S/E = CI + E$ and from the reformulated \$1/5, powcoder.com CI = OI + NFE

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Be	gin	ning	Stock
	•	0	*

NOA_{t-1}

- NFO_{t-1}

 $= S/E_{t-1}$

Flows

$$\triangle$$
NOA = $[OI_t + FCF_t]$

$$- \triangle NFO = - [FCF_t - NFE_t - E_t]$$

$$= OI_t + NFE_t + E_t$$

Ending Stock

NOA,

NFO₊

 $= S/E_{+}$

$$\triangle$$
NOA = OI (after tax) - FCF

FCF = OI (after tax) - \triangle NOA

note – this relation creates an important theoretical link between the cash flow statement and the income statement/balance sheet

 \triangle S/E = CI + E

note, through a similar algebraic process, it is also possible to show: \triangle NFO = FCF - NFE - E additionally, from the equity statement and the clean surplus relation, $\triangle S/E = CI + E$

and from the reformulated \$1/\$, powcoder.com

CI = OI - NFE

Beginning Stock

 NOA_{t-1}

- NFO_{t-1}

 $= S/E_{t-1}$

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Flows

$$\triangle$$
NOA = $[OI_t + FCF_t]$

$$-\triangle NFO = -[FCF_t - NFE_t - E_t]$$

$$= OI_t + NFE_t + E_t$$

Ending Stock

$$NOA_{t}$$

$$-NFO_t$$

$$= S/E_t$$

Reconciliation - Coles 2020

$$NOA_{2019} = 13,102*$$

$$\triangle$$
NOA = $[OI_t + FCF_t]$
= 1,288 - 2,185

$$NOA_{2020} = 12,205$$

$$NFO_{2019} = 10,576**$$

$$\triangle$$
NFO = [FCF - NFE - E]

$$NFO_{2020} = 9,590$$

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$$S/E_{2019} = 2,526 * * * *$$

$$S/E_{2020} = 2,615$$

** 2019 reported NFO = (637)

* * * 2019 reported S/E = 3,357

see Notes 1.6, 2.7, 2.9, 7.5

adoption of AASB 16 (leases) = + 10,832 adoption of AASB 16 (leases) = + 11,213 adoption of AASB 16 (leases) = -831

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adjusted 2019 NOA = 13,102 adjusted 2019 NFO = 10,576 adjusted 2019 S/E = 2,526

Note/recall - the overarching objective of the reformulation process is to facilitate the forecasting exercise