<u>ACCT7106 – Session #7</u>: Reformulating the Financial Statements

PART 1 - Background

overarching objective: Assignment Project Exam Help

to conduct fundamental va imating the 'intrinsic value' of a firm's common shares https://eduassistpro.github.io/

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

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Balance Sheet (B/S)

⇒ projected Income Statement (I/S)

over the forecast of Cash Flows (SCF)
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core inputs

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Sessions #3 \rightarrow #9

STEP 1 **Understanding the past**

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

STEP 2 Forecasting the future

Assignment Project Exam Help. Cost of capital

2. Valuation models - AE, FCF, D

https://eduassistpro.github4iocomplications

Add WeChat edu_assist_prob. Value creation and destruction

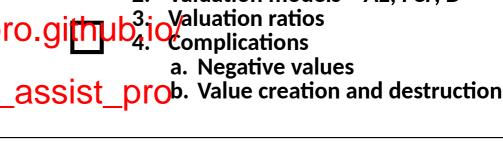


Figure 1.1 Lundholm & Sloan, Framework for Equity Valuation

STEP 3

Valuation

Stages of the Analysis

Stage 1 – Understanding the Business

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



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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 https://eduassistpro.githubilio Valuation Models tatement 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



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

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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 → definitio

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- ➤ accounting principles → AASB / IFRS rules ounting decisions/choices
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- recognition (item to F/S) versus disclosure (n
- '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'

= Net Income (NPAT

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	ssignment	Proj e €t Ex	am Help		
Administrative expenses	https://o	duaccietar	±? o.github.io	±?	± ?
Other expenses	тирѕ.//е	uuassisipi	o.gitriub.io	/	
Share – equity investments	Aðd We	Chat edu_	assist_pro		
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:

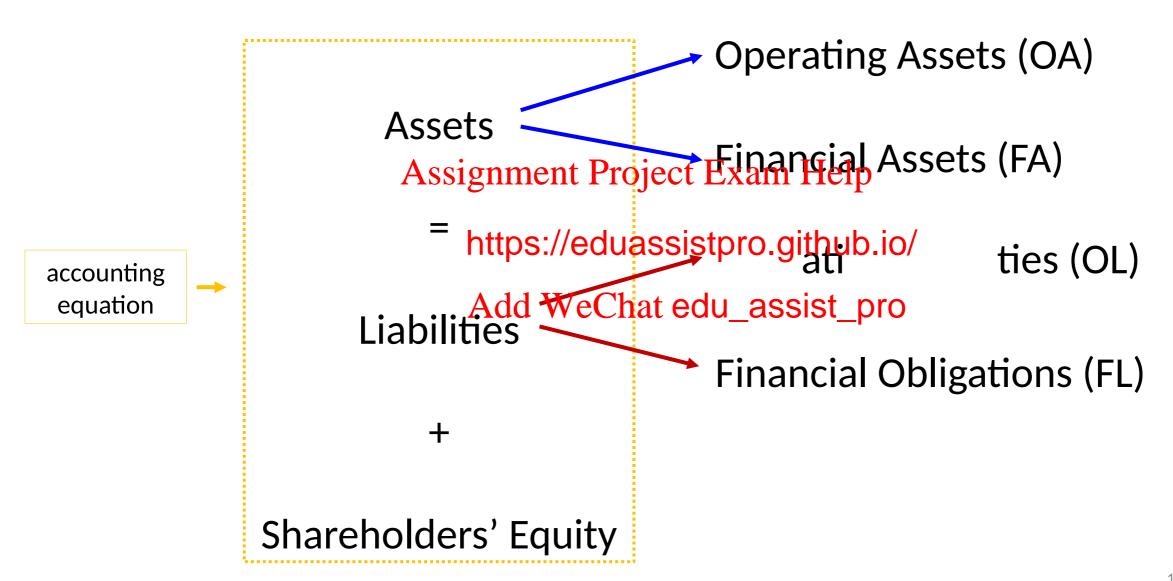
- separate operating activities from financing activities
 - Operations: buying and selling goods and services
 - Financing: the company's use of debt and equity to finance its operations, as well as the company's investment in Financial assets roject Exam Help

Why separate? industrial chttps://eduassistpro.gittpmbthgir operations, not from their financial activities

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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

https://eduassistpro.github.io/ isive on their own):

- typical indicators of Financial
 - o the item is financial nature, such and estimated that edu_assisturings
 - 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 https://eduassistpro.github.io/
 - the liability is not integrated with the company's op
- Add WeChat edu_assist_pro 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

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OA / FA (0.5%)

OA (after checking note)

OA (after checking note)

FA

OA (after checking note)

OA (after checking note)

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

Non-current assets

Property, plant and equipment

Right-of-use assets

Intangible assets

Deferred tax assets

Equity accounted investments

Other assets

Total non-current assets

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→ OA (after checking note)

OA (after checking note)

→ OA (after checking note)

		-	CONSC	LIDATE	D	-	* Note 2.9 reveals that 2019 'provisions' include amounts for 'lease provisions' ≡ FO
Liabilities			28 JUNE 2020	30 .	JUNE 2019		Tor Tease provisions = 10
Current liabilities	1	VOTES	\$M		\$M		
Trade and other payables						\rightarrow	OL (after checking note)
Provisions						\rightarrow	OL/FO (after checking note)
Lease liabilities	Assi	onme	nt Project E	xam I	Heln	\rightarrow	FO (after checking note)
Other	7 1001	Simile	nt i roject <i>D</i> .	Auiii I	Telp	\rightarrow	OL (assumed)
Total current liabilities		https:	//eduassistp	ro.git	thub.io/		
Non-current liabilities		Add V	WeChat edu	_assi	st_pro		
Interest-bearing liabilities						\rightarrow	FO (after checking note)
Provisions						\rightarrow	OL/FO (after checking note)
Lease liabilities						\rightarrow	FO (after checking note)
Other						\rightarrow	OL (assumed)
Total non-current liabilities							
Total liabilities							

Reformulation Summary - Coles

	2020	2019		2020	2019
OA	17,502	9,028	FA	847	749
OL	<u>5,297</u>	A 65398 mer	it Proj E0 t Exam F	lelp 10,437	<u>112</u>
		https://	eduassistpro.git	9,590 hub.id/	(637)
				* 1 /- *1 /-	3,357
NOA	12,205	2,720	VeChat edu_assis	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 inc recurring and driven by sales https://eduassistpro.github.io/ whether the items are

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- 3. reallocates income tax expense to remove th 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

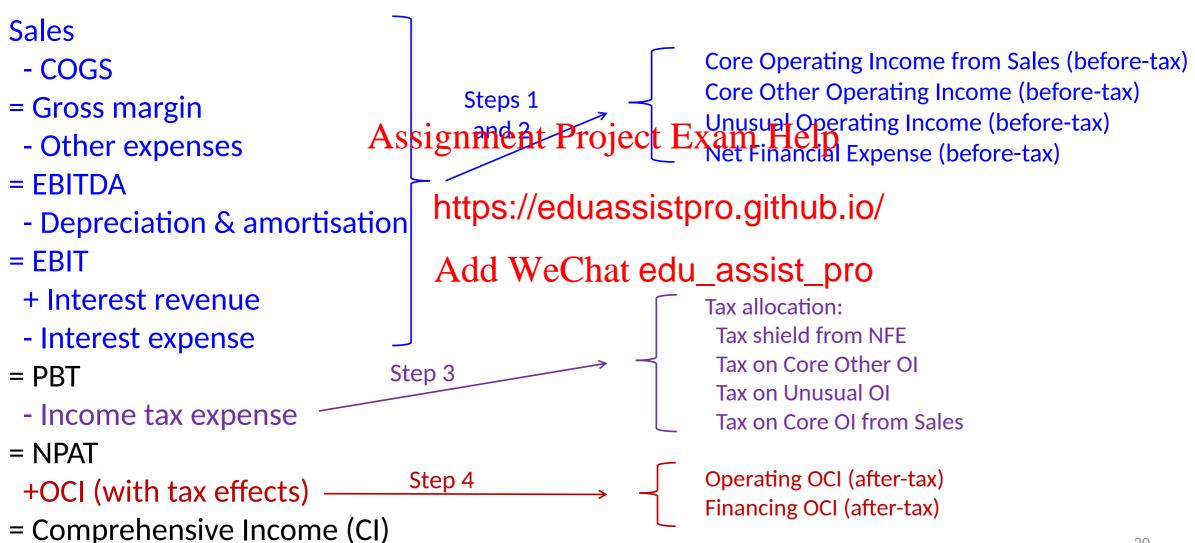
Step #3: divide income tax exp https://eduassistpro.github.io/

- core operating income from edeleweChat edu_assist_pro
- 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

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

- 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

- Core OI from sales
- Core other OI
- Core OI from sales
- Assignment Project Exam Help Core other OI
 - → Core OI from sales & Unusual OI*
 - https://eduassistpro.github.jo@ore financing expense (NFE)
 - Add WeChat edu_assist_pro Core financing expense (NFE)
 - → Step #3
 - Unusual OI (also *Step #3* re: tax)

^{*} 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 (bef	ore tax)	478	721
Core OI (before ta	x) Assignment	Project Exam Help	1,655
Unusual OI (before	e tax)		315
Core NFE (before t	ax)	duassistpro.github.	(188)
versus reported profit		Chat edu_assist_pi	O* 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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Note: Australia has a stated corporate tax rate 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/deckigtion entoPiatictv/Hx blmuHiel poperating Income = Unusual OI x 30%

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- 3rd calculate tax expense/deduction associated ther Operating Income = Core Other OI x 30% Add WeChat edu_assist_pro
- 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://eduassistpro.github.io/

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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	signment Project Exam Help	1,000
Net Financial Expenses	https://eduas sis tpro.github.io/	<u>(400)</u>
Profit Before Tax	ritips.//cadassistpro.gitriab.io/	600
Tax Expense @ 30%	Add WeChat edu_assist_pro	<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://	/eduassistnr	O.GITHUD.IO/ sual Operating Income
Restructuring charges	——————————————————————————————————————	sual Operating Income
EBITDA Add W	eChat edu_	assist pro
Depreciation & Amortisation	(25	perating 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 (b	pefore tax)		
Sales	2,000		
COGS	(1,000)		
Wage expense	(250)		
Advertising expense	(50)		
Depreciation & Amortisation	(250)	450	
Ass	signment Project Exam Help		
Core Other Operating Income (be			
Rental income	https://eduassistpro.github.io) /	
Share of profit from equity-accou	unted investments	30	
	Add WeChat edu_assist_pro		
Unusual Operating Income (befo			
Gain on sale of property	30		
Restructuring charges	(10)	20	
Net Financial Expenses (before to	ax)		
Interest expense	(100)		
Interest income	<u>20 (80)</u>		420 = PBT

Tax Allocation:

1 st	tax shield from Net Financial Expenses	= 0.30 * 80	= 24	
2 nd	tax on Unusual Operating Income	= 0.30 * 20	= 6	
3 rd	tax on Core Other Operating Income	= 0.30 * 30	= 9	

→ 4th tax on Core Operating Income from Sales = 126 + 24 - 6 - 9 = 135

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Core Operating Income from

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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 skripgenine finta Roin jasset Ethatign Hieligh OCI
 - gain/loss from cash flow he
 - gain/loss from fair value ch https://eduassistpro.github.io/

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Coles

note – tax effect on OCI item is provided

cash flow hedge

→ financial OCI

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

NPAT	294	
Other Comprehensive Inco	me	
Asset revaluation	40 →	operating
fair value gain on share	girgerhae fil Project Exam Help (6) →	financing
loss on re-measurement of tax effect	https://eduassistpro.git/hub.io/ Add WeChat edu_assist_pro	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)

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Financing OCI (after tax) = 14

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

Total Net Financial Expense = (56) + 14 (42)

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	D 315**
Core NFE (before tax)		(188)
Tay eynence	/eduassistpro.githu VeChat edu_assist_	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>
                                                      = 0.30 * 478
         tax on Core Other Operating Income
                                                                     = 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 Examulately 8.2 =
                                                                        924.8
Core Other Operating Income https://eduassistpro.github.io/
                                                                        334.6
Unusual Operating Income (after tax)
                                                                         28.7
Net Financial Expenses (after tax)dd WeChat edu_assist_pro_9 =
                                                                        (310.1)
                                                     (17) + 5
Financing OCI (after tax)
                                                                         (12)
       Total Operating Income (after tax) = 924.8 + 334.6 + 28.7
                                                                            1,288.1
```

Total Net Financial Expense (after tax) = (310.1) + (12)

Comprehensive Income (after tax)

(322.1)

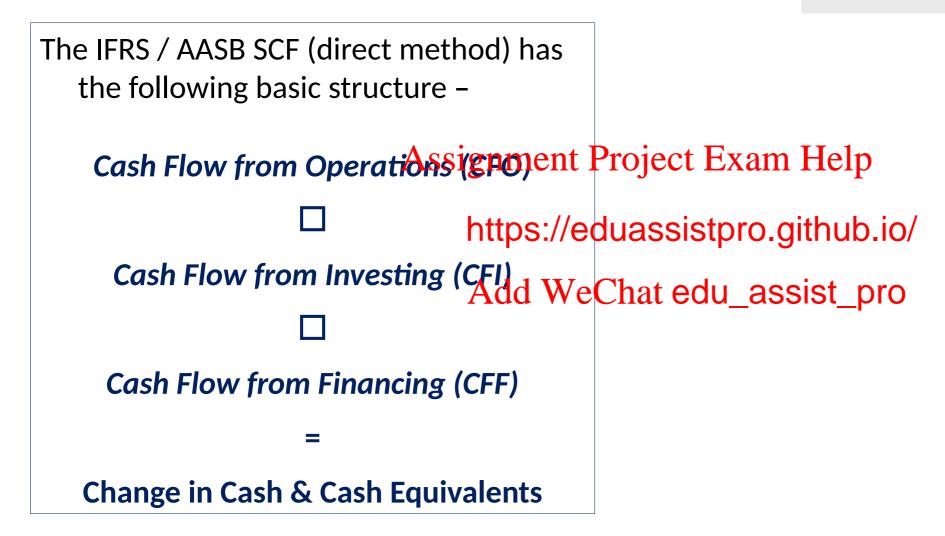
966

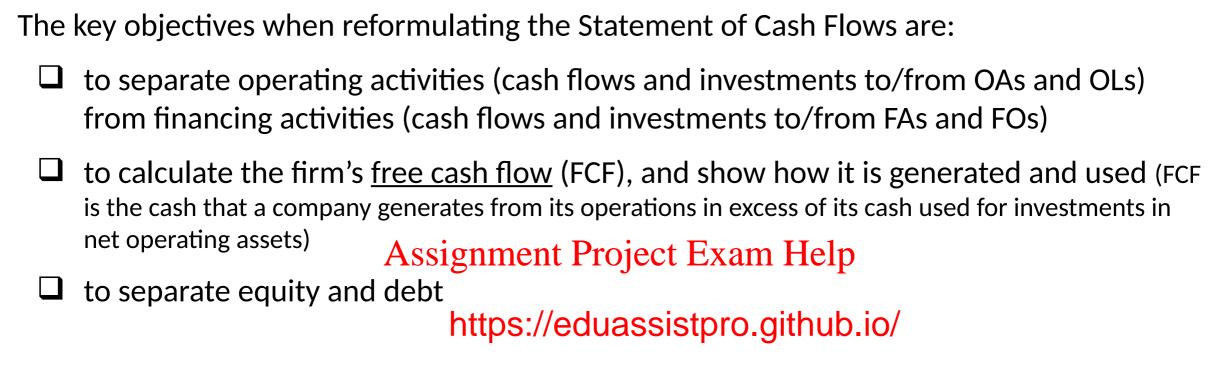
re: 2019

```
= 0.30 * 188
 1<sup>st</sup>
         tax shield from Net Financial Expenses
                                                                      = 56.4
                                                      = 0.30 * 42
                                                                      = 12.6
 2<sup>nd</sup>
         tax on Unusual Operating Income
 3<sup>rd</sup>
         tax on Core Other Operating Income
                                                      = 0.30 * 721 = 216.3
         tax on Core Operating Income from Sales
 4<sup>th</sup>
                                                      = 347 + 56.4 + 12.6 - 216.3 =
 199.7
Core Operating Income from Signante Project Exam Help.7
                                                                                734.3
Core Other Operating Income https://eduassistpro.github.io/
                                                                                504.7
Unusual Operating Income (after tax)
                                                                                327.6
Net Financial Expenses (after tax)dd WeChat edu_assist_pro
                                                                                (131.6)
                                                      (2) + 1
                                                                                 (1)
Financing OCI (after tax)
       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





note: unlike the I/S, we are not doing a 'full' ref 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** dividends & share repurchases https://eduassistpro.github.iq/ share issuances Add WeChat edu_assist_pro 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 https://eduassistpro.glfhub.to/NOA)

- FCF > 0 ⇒ the company has spare (or free) c 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 borsing hand teresticated to financial obligations (FO) e.g., proceeds from borrowings/repayment of borsing hand teresticated to financial obligations (FO) e.g., proceeds from borrowings/repayment of borsing hand teresticated to financial obligations (FO) e.g., proceeds from borrowings/repayment of borsing hand teresticated to financial obligations (FO) e.g., proceeds from borrowings/repayment of borsing hand teresticated to financial obligations (FO) e.g., proceeds from borrowings/repayment of borsing hand teresticated to financial obligations (FO) e.g., proceeds from borrowings/repayment of borsing hand teresticated to financial obligations (FO) e.g., proceeds from borrowings/repayment of borsing hand teresticated to financial obligations (FO) e.g., proceeds from the borrowing from the
 - of short-term investments/p https://eduassistpro.gith.uhd@terest 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 financiassisment Project Exam Help

https://eduassistpro.github.io/

re: net interest received / paid Add WeChat edu_assist_pro

- 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 ca https://eduassistpro.github.io/

- in reformulating the B/S, 'cash & cash eq edu_assist. pro cash' (an operating asset, OA) and 'finan edu_assist. pro 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

Cash Flow from Operations (CFO)

Change in Cash & Cash Equivalents

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>
nmento Project Exam Help	530
.,	
្យ ttps://eduassistpro.gt្ជង្អូប្អូរo/	(100)
payments for P	(200)
payments for P det WeChat edu_assist_pro	(300)
Cash Flow from Financing	
dividends paid	(150)
shares issued	50
proceeds from borrowings	<u>200</u>
Net CFF	100

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

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	signment Pro	ject Exam Herp investments	(100.0)
tax shield = $(10 - 100) * 0.30$	(<u>27.0)</u>	investment in financing cash	(300.0)
Adjusted CFO (C)	https://edua	assistpro.githមេស.សៃ ^{ws (F)}	(263.0)
Adjusted CFI = I:	Add WeCh	at edu_assist callOflows = E	
reported CFI	(300.0)	dividends paid	(150.0)
purchase of short-term investments	100.0	shares issued	<u>50.0</u>
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)

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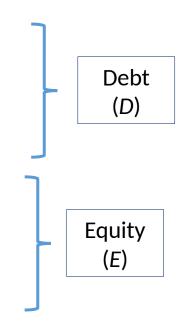
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→ 13 E; bal I

	<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

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

	Free (Cash F	low:
--	--------	--------	------

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	renayment of horrowings	(5,226)
interest paid interest – lease payments	Assignment Project Fxam Helpprincipal	(846)
tax shield = (7 – 429) * 0.30	t in financing cash	<u>(56)</u>
Adjusted CFO (C)	t in financing cash https://eduassistpro.github.io/ 2.852	(1,308)
Adjusted et 0 (e)	Add WeChat edu_assist_pro g cash flows = E	
Adjusted CFI = I:	g cash flows = E	
	45.5444	(070)

reported CFI	(658)	dividends paid	(873)
investment in operating cash	4	share-based payment expense	13
share-based payment expense	(13)	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://eduassistpro.github.io/

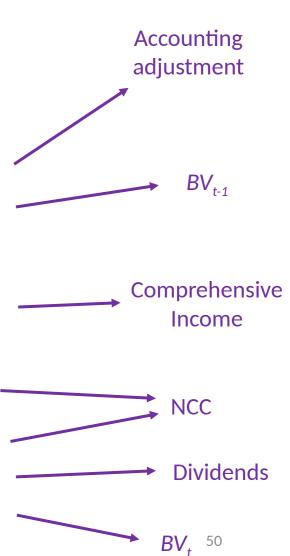
- o preference shares remove from set bala edu_assist to financial obligations (FO)
- non-controlling interest group with S/E (for our purposes)
- dividends payable / dividends declared adjust S/E balances and remove from FO

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

Statement of Changes in Equity

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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

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

Ending Book Value of Common Equity

 $\mathsf{BV}_{\scriptscriptstyle t}$

PART 7 - Reformulation Summary

'new' (reformulated) accounting relations:

- \Box Balance Sheet: NOA = NFO + S/E
- \Box Income Statement: CI = OI (after tax) + NFE (after tax)
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- Cash Flow Statement:

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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)

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

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

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

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

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

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from the reformulated I/S

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- \Rightarrow \triangle NOA = F NFE (after tax) + CI + E = OI (after tax) + (F + E)
 - \Rightarrow \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 reformul https://eduassistpro.github.io/ CI = OI + NFE

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$$= S/E_{t-1}$$

Flows

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

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

$$= OI_t + NFE_t + E_t$$

Ending Stock

$$NOA_t$$

$$-NFO_t$$

$$= S/E_{t}$$

$$\triangle$$
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 reformul https://eduassistpro.github.io/

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

 OI_t https://eduassistpro.github.io/ $S/E_{2020} = 2,615$

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* 2019 reported NOA = 2,720

** 2019 reported NFO = (637)

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

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

adjusted 2019 NOA = 13,102 adjusted 2019 NFO = 10,576

adjusted 2019 S/E = 2,526

see Notes 1.6, 2.7, 2.9, 7.5

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