(1) Intro to Financial Accounting

Purpose: Financial Accounting helps external decision-makers make better decisions. (Investor, Lenders, Gov agencies, Media) | Functions: Analysis, Bookkeeping, Reporting & Evaluation | Standard: International Financial Reporting Standards (IFRS) | Ethics: Integrity, Objectivity, Professional Competence, Due Care, Confidentiality, Professional Behavior

. Separate Entity Concept -- Activities of a business entity are separated from those of the individual owners

2. Time Period Assumption -- The long life of a company can be reported in shorter time-periods. (Annually, Quarterly, etc.) (Financial statements are prepared at regular intervals for comparative analysis)

 Arm's Length Transactions -- Business dealings between entities are conducted in a rational basis for their own interests 4. (Historical) Cost Principle -- Transactions are measured at historical costs or original costs ate the transaction date.

5. Fair Value Principle -- Assets & Liabilities should be measured at fair value to improve relevance of accounting information 6. Monetary Measurement Concept -- Value of items in financial statements must be measurable in dollar value, otherwise not

7. Going Concern Assumption: The business entity is assumed to have indefinite economic life and is not under liquidation.

Financial Statements 1. Balance Sheet -- Reports entity's assets, liabilities & equity at a particular date Assets = Liabilities + Equity

Assets: Property, Land, Vehicles, Cash, Inventory, Receivables

Liabilities: Pavables, Unearned Revenue

- Equity: Capital Stock, Retained Earnings 2. Statement of Comprehensive Income -- Reports entity's revenue, expenses, net income & other comprehensive income

over an accounting period Revenue - Expenses = Net Income Net Income + Other Comprehensive Income = Compre. Income

3. Statement of Changes in Equity -- Reports the changes in the components of equity over a period of time.

Beginning Equity + Increase in Capital Stock + Net Income - Dividends + Other Comprehensive Income = Ending Equity - Capital Stock / Paid-in capital

Retained Farnings

Concepts & Assumptions:

they are recorded

Accumulated other comprehensive income

4. Statement of Retained Earnings (Not Required (IAS 1)) -- Reports changes in components of retained earnings during a

period of time Beginning Retained Farnings + Net Income - Dividends = Ending Retained Farnings

5. Statement of Cash Flows - Reports entity's cash inflows/outflows during a period of time and classified into operating,

investing & financing activities Beginning Cash Balance ± Operating Activities ± Investing Activities ± Financing Activities = Ending Cash Balance

6. Notes to Financial Statements -- Explanatory Information: summary of Significant Accounting Policies, Additional Info

about the Summary Totals, Disclosure of Info not recognised in the financial statements, Supplementary Info required under **IFRS** 4. Prepare Reports

- Prepare adjusting entries & post to T-accounts

- Prepare balance sheet from adjusted trial balance and

- Prepare Statement of cash flows & Notes to financial

- Prepare SCI based on adjusted trial balance

- Compute ending retained earnings balance

- Close the books for next year (Closing Entries)

- Prepare adjusted trial balance

ending retained earnings balance

(2) Accounting Cycle 1 Analyse transactions

Only record & analyse transactions which:

-- (1) Involve exchange of resources

-- (2) Conducted at arm's length (Arm's Length Concept)

- (3) Can be reliably measured (Measurement Concept) Equation: Assets = Liabilities + Equity

2. Record the effects of transactions

All business transactions are recorded in chronological order 3 Summarize the effects of transactions

Post Journal Entries to T-accounts & prepare Trial Balance, listing all accounts and their respective debit or credit balance.

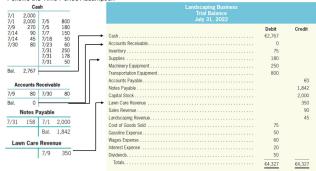
The balance is on the side that increases the amount.

(3) Accrual Accounting

Revenues are recognised when earned and Expense are recorded when incurred (matching principle) regardless of when cash is paid or received (Required by IFRS)

- Allows external users to know the financial position of the entity and its relative success or failure on a timely, continuous

- Follows the Time Period Assumption



1. Unrecorded Receivables (Asset) -- Revenues earned have not been recorded yet DR Accounts Receivable CR Revenue

2. Unrecorded Liabilities (Liability) -- Expenses incurred that are not paid during the period DR (Salaries) Expense CR (Salaries) Payable

Prepaid Expenses (Asset) -- Expenses paid in advance, but not incurred yet

At transaction : DR Prenaid Expenses CR Cash

At Incurring Expense: DR Expense CR Prepaid Expense

4. Unearned Revenues (Liability) -- Customer paid in advance, but we haven't provided the goods or services At transaction : DR Cash CR Unearned Revenue

At Provision of goods: DR Unearned Revenue CR Revenue

Note: Adjusting Entries do not involve cash. It involves a balance sheet Acct (A/L) and a SCI Acct (Revenue / Expenses)

Unrecorded Receivables : DR Asset CR Revenue | Unrecorded Liabilities : DR Expense CR Liability Prepaid Expenses : DR Expense CR Asset | Unearned Revenues : DR Liability CR Revenue

Closing the books

Post the closing journal entries to transfer all revenue, expense & dividend account balances to retained earnings account so that at the start of the next fiscal term, revenue, expense & dividend accounts (temp or nominal accounts) begin with zero halances.

(Petty Cash -- For small amt payments to save time & effort (1) Establish Petty cash fund: DR Petty Cash CR Cash

(2) Use Petty Cash (Not Recorded): DR Expense CR Petty Cash

(3) Replenish fund (Not Recorded): DR Petty Cash CR Cash

Num (2) and (3) are not recorded (save time) so the actual JE for replenishment is : DR Expense CR Cash

- Petty cash vouchers (receipts) + money left = established (original) size of fund Missing \$\$ (due to human error or otherwise): DR Cash Short and Over, CR Cash Post closing JE to transfer all revenue, expense, and dividend account balances to retained earnings: DR Sales Revenue DR Other Operating Income 100 DR Financial Income 100 CR Material expenses 25 25 25 CR Personnel Expenses CR Other Operating Expenses **CR** Depreciation 25 CR Amortization 25 25 CR Financial Expenses CR Income Taxes 25 CR Dividends 25 CR Retained Farnings 100

(4) Revenue & Receivables Five principles of Revenue Recognition under IFRS 15: (1) Identify the contract with the customer (2) Identify

performance obligations in the contract (3) Determine transaction price. (4) Allocate transaction price to separate performance obligations (5) Determine when the performance obligation is satisfied, and revenue can be recognised. Accounts Receivable -- Current Asset representing money due for goods sold or services provided on credit Attransaction: DR Accounts Receivable CR Sales Revenue | DR Cash CR Accounts Receivable

Sales Discount -- Early payment incentive (not for bulk purchase) Credit terms 2/10, n/30 = 2% discount if payment made within 10 days, otherwise full price within maximum of 30 days

 Sales Discounts account is used to accumulate the dollar amt of sales discounts for all customers At sales : DR Accounts Receivable CR Sales Revenue | DR Cost of Goods Sold CR Inventory Discount:DR Sales Discount CR Accounts Receivable

Sales Returns & Allowances -- Customers returning unsatisfactory or damaged goods and receiving a refund - Accounted for in senarate acct: Sales Returns and Allowances

At sales : DR Accounts Receivable CR Sales Revenue | DR Cost of Goods Sold CR Inventory

Returns :DR Sales Returns & Allowances CR Accts Receivable | DR Inventory CR Cost of Goods Sold

Net Sales -- Sales Discounts & Sales Returns and Allowances are both contra-revenue accounts, deducted from gross sales to derive the net sales for the year (reported on income statement) Sales Revenue

Less: Sales Discounts (XX) Less: Sales Returns and Allowances (XX) Net Sales (First Line on Income Statement) Treatment of Bad Debts

Bad debts are uncollectible accounts receivable, arising in the normal course of business. Direct write-off is not allowed under IFRS as it violates matching principle. Allowance method is used.

DR Expected Credit Loss (Expense) DR Accounts Receivable CR Loss Allowance (Contra-Asset) XX CR Loss Allowance (Estimate how much bad debt (top up EZ link) (Written-off Customer pays back) DR Loss Allowance XX DR Cash XX CR Accounts Receivable Cr Accounts Receivable (Write-off uncollectible Amt (Tap EZ link) - Expected Credit Loss is an estimated operating expense for uncollectible amount of accounts receivable

- Loss Allowance is contra-asset to accounts receivable on the balance sheet. It is the impairment of AR that is estimated to be uncollectible

Net Realisable Value of AR = Total AR - Loss Allowance Method 1 -- Percentage of Total Account Receivable

Estimate the amt of uncollectible as percentage of total receivable balance at end of the period

Existing LA credit balance → Reduce LA adjustment to meet target ECL (EZ link in (+) balance, no need add so

much \$\$) Existing LA debit balance → Add debit balance to LA adjustment to meet target ECL (EZ link is in (-) balance, need

add more \$\$)

Method 2 -- Aging of Accounts Receivable

Each receivable is categorized by the number of days it has been outstanding. BS -- Current Assets:

SCI -- Operating Expenses: Accounts Receivable Expected Credit Loss Less: Loss Allowance (XX) Accounts Receivable (net) XX

Notes Receivable -- A legal contract (promissory note) to settle acct receivable with interest & maturity date (due date) Interest Revenue = Face Value * Annual Interest Rate * Duration

By due date, if the note is not paid, the amt is transferred to account receivable with full interest DR Accounts Receivable XX

CR Notes Receivable XX CR Interest Revenue XX (Transfer Dishonored note receivable to AR) Accounts Receivable Turnover

AR Turnover = Net Sales / Average Accounts Receivable (Measures how fast entity collects its receivables, higher better)

Average Collection Period

Avg Collection Period = 365 / Accounts Receivable Turnover

(Avg num of days taken to collect receivables, shorter better)

A company that collects receivables on a timely basis has cash to pay its bills.

Impact of Foreign Currency on value of Accts Receivable

Sale is measure at the exchange rate on date of sale. Any changes between sale and settlement (payment) date i

recognised as <u>exchange gains or losses</u>. (Record in SCI)

- Reduce risk by denominating transaction in parent company home currency or enter a forward contract to hedge risk.

Apr 23 (Sale) Receivable Value = \$200 Gain/Loss: NA Jun 30 Receivable Value = \$140 Loss: \$60

Jul 02 (Payment) Receivable Value = \$120 Gain: \$20

3CI (2 Qual tel)	Datalice Slicet (2 Q)
Sales Revenue \$200	Accounts Receivable \$140
Foreign Exchange Loss (\$60)	
SCI (3 rd Quarter)	Balance Sheet (3 rd Q)
Sales Revenue \$0	Accounts Receivable \$160
Foreign Exchange Gain (\$20)	

^ (Value of Foreign Exchange Gain/Loss & AR varies) (5) Cash & Bank Reconciliations

Purchase Discounts -- DR Acct Payable CR Inventory // to reflect true cost of inventory after discounts.

Purchase Returns -- DR Accts Payable CR Inventory (return of goods)

Bank Reconciliations - Ending cash balance in company records and in monthly bank statement may be different Company only can make changes to book balance side, Adjusted Bank Balance == Adjusted Book Balance Unadjusted Bank Balance + Deposits in Transit - Outstanding Checks ± Bank Errors = Adjusted Bank Balance Unadjusted Book Balance + Interest Paid + Bank Credit (Direct Deposits) - Service Charges - NSF Checks - Bank Debit (Transfers) ± Book Errors = Adjusted Book Balance

Sample (Company		
Bank Rec	onciliation		
July 3*	1, 2022		
\$14,422	Balance per books		\$14,037
!	Additions to book balance		
3,100	Direct deposit	\$3,200	
\$17,522	Interest	60	3,260
!	Total		\$17,297
	Deductions from book balance:		
!	Service charge	\$ 7	
!	Bank Transfer	425	
(937)	Error in recording check No. 630	180	
	NSF checks	100	(712)
\$16,585	Adjusted book balance		\$16,585
	Bank Rec July 3: \$14,422 3,100 \$17,522	Additions to book balance 3.100 \$17,522 Interest Total Deductions from book balance: Service charge Bank Transfer (937) Error in recording check No. 630	Bank Reconciliation July 31, 2022

Bank service charge -- DR Service Expense CR Cash | Interest paid by bank -- DR Cash CR Interest Revenue

Bank debit/Bank Transfers -- Deductions made by bank not yet recorded -- DR Expenses CR Cash Bank credit/Direct Deposits -- Deposits into bank account before recording -- DR Cash CR Accounts Receivable

Control Activities -- Procedures to provide reasonable assurance that the company's established objectives will be met and that financial reports are accurate: (1) Adequate Segregation of Duties (2) Proper Procedure for Authorization (3) Physical Control over Assets and Records (4) Adequate Documents and Records (5) Independent Checks Cash Controls -- (1) Segregating duties in handling of cash and recording for cash (2) Cash receipts are deposited in banks

on a daily basis (for working days) to prevent accumulation of large amt of cash on hand (3) Except for small-amt payments, all payments are made with prenumbered checks to prevent fraud and irregularities (4) Prepare monthly bank reconciliation Internal Controls

Control Environment	Control Activities (Procedures)
. Management philosophy and operating style	Segregation of duties (preventive control)
2. Organizational structure	Proper procedures for authorization (preventive control)
3. Audit Committee	Physical control over assets and records (preventive control)
	Adequate documents and records (detective control)
	Independent checks on performance (detective control)

(6) Inventory

Ownership -- Free-On-Board Destination vs FOB Shipping Point

Cost of Inventory includes: All costs of purchase, other costs incurred in bringing inventory to present location & condition (e.g. freight-in). Excludes sales and marketing costs (operating expenses).

At period end: No entry for perpetual. DR Inventory, Purchase Returns, Purchase Discounts, COGS; CR Freight-in,

Purchases, Inventory for periodic

Periodic Inventory System -- COGS = Beginning Inventory + Net Purchases - Ending Inventory

Perpetual Inventory System -- Physical counts allow companies to determine inventory Shrinkage. The difference between the physical count value and the book value will be reported as the physical stock shrinkage. JE: DR COGS CR Inventory

4 Formulas for inventory costing under Periodic System Differences Periodic (1) Specific Identification -- For very high value inventory Purchase of Merchano OR Purchases (2) FIFO -- First Purchases → First Sold (Used by IFRS) DR Freight-in CR Purchase Re CÓGS = Cost of goods available for sale - Cost of Ending Inv - Reports Inventory with most recent cost Purchase Discounts CR Inventor CR Purchase Discounts Sales of Merchandise CR Inventor NO ENTRY for COGS - Measures inventory value better cos it approxs current cost NO ENTRY for COGS - May result in higher net income Inventory Shrinkage

Freight-in / Transportation

Purchase Discounts

DR Inventory CR Cash

DR Accounts Payable CR Inventory CR Cash DR Freight-in DR Cash

DR Accts Receivable CR Sales . DR Cost of Goods Sold CR Inventory

DR Accounts Payable CR Purchase Discounts CR Cash

Purchases Returns
DR Accts Payable CR Inventory

DR Accts Payable CR Purchase Returns

(3) LIFO -- Last Purchases → First Sold [Not allowed by IFRS] Purchase of Merchandise May result in lower income tax DR Inventory CR Accts Payable DR Purchases DR Accts Payable

- Understates end Inventory when prices are increasing (4) Weighted Average Cost :

Unit cost = total cost of goods / num of units Understates ending inventory when prices are increasing Inventory Management Efficiency Ratios

Inventory Turnover = COGS / Average Inventory
- Average Inventory = (Begin Inventory + End Inventory) / 2

(Measures efficiency of inventory management, higher better) DR Accts Receivable CR Sales Number of Days Sales in Inventory = 365 / Inventory Turnover Sales Returns (Average Num of Days from purchase to sale, shorter better)

DR Inventory CR COGS, DR Sales Returns CR Accounts Receivables

DR Sales Returns CR Accounts Receivables Inventory Valuation

If Net Realisable Value < Cost of Goods: (Adjust item by item)

Inventory Shrinkage

Inventory Shrinkage

Inventory OR Cost of Goods Sold, CR Inventory

- No Entry for Periodic System CR Allowance for Inventory Write-down (Contra-Inventory)

If NRV

Cost of Goods, no adjustment needed.

Write down to NRV (1) item by item or (2) by group of similar/related items. Cannot write down by basis of classification of inv

(7) Liabilities & SCI -- Current liabilities are reported on the balance sheet. Payroll Expenses & Liabilities -- Recorded as operating expenses

DR Salaries Expense, CR Salaries Payable CR Various Payable | DR Salaries Payable CR Cash

Sales Tax -- Applied to additional value created at each stage of the supply chain. A consumption tax levied only on the final value of goods & services. DR Inventory/Purchases, CR Sales Input Tax CR Cash (Buy from supplier) DR Cash CR Sales Revenue CR Sales Output Tax (Sell to customer) DR Sales Output Tax, CR Sales Input Tax CR Sales Tax Payable | DR Sales Tax Payable CR Cash (pay gov)

Tax payable = Output Tax (sales) - Input Tax (paid on purchase) Property Tax -- For land, building and other assets. Company must report prepaid tax expenses or property tax liability

(incurred, not yet paid) Income Tax -- Reported after "Income before Tax" on SCI. It is normally computed based on a percentage multiplied by Income before Tax

A Taxes may be reported as prepaid/unrecorded depending on timing of payment Provision -- Estimated liability on the Balance Sheet. Recognised when loss is probable, and a reliable estimate can be made

of the amt of the obligation Contingent Liabilities -- Disclosed in Notes to Financial Statements. Not reported on Balance Shee

Reliability of Estimates Accounting Treatment Probability Probable Yes Provision (> 50%) Nο Contingent Liability Possible Yes Contingent Liability (10% - 50%) Nο

Do Nothing

Remote (< 10%)

Product Warranty -- Record at time of sales (matching principle)

DR Product Warranty Expense, CR Product Warranty Provision DR Product Warranty Provision, CR Supplies, CR Wages Payable

!! Warranty expense is recognised when a provision is made.

!! "Accrued Product Warranty" == Product Warranty Provision

Report non-operating income and expenses separately to help investors differentiate between income earned from operating activities and income earned from peripheral activities,

Basic Earnings Per Share = Net Income / Avg Num of Shares Outstanding

Avg Num of Shares Outstanding = (Shares Beg + Shares End) / 2

(8-9) Property, Plant, Equipment -- PPE and Intangible Assets are long-term assets reported on Balance Sheet Acquisition -- PPE is recorded at cost, including purchase price and other costs necessary in getting it ready for its intended use. The cost of a PPE item is recognised as asset only if (a) It is probable the future economic benefits will flow to the entity, and (b) Cost is measured reliably.

By PPE, CR Cash | DR Land, DR Building, CR Cash // Use Fair market values

!! When 2 or more assets are acquired at a single price, use relative fair market values of the assets to determine

Depreciation -- Systemic allocation of depreciable amount of an asset over its useful life. Any changes in Useful life and/or Residual Value under Straight-line depreciation method affects amount of

depreciation prospectively (in future only). It does not change past depreciation expenses

Depreciation Amt = Cost - Residual Value DR Depreciation Expense CR Accumulated Depreciation (PPF

- Depreciation Expense is an operating expense on SCI

Accumulated Depreciation is a Contra Asset on Balance Sheet

Cost Less Accumulated Depreciation / Carrying Amt -- Undepreciated amount of the cost, Becomes Residual

Value at end of useful life.

Straight-line	Units-of-Activity	Declining-Balance
(Cost - Residual Value) /	(Cost - Residual Value) / Total Units *	Cost - Accumulated Depreciation *
Years of Useful Life	Units in the year	Declining Balance Rate
Deduct Residual Value		Do Not Deduct Residual Value

Depletion -- Process of cost allocation that assigns the original costs of a natural resource to the periods benefitted. JE: DR Coal mine, CR Cash | DR Depletion Expense, CR Accumulated Depreciation, Coal Mine BS: Coal Mine xx, Less: Accumulated Dep (xx), Carrying Amt xx

!! A change in the estimate of useful life and/or residual values does not change the depreciation expense

retrospectively. Only affects depreciation expense in future years. Impairment -- decline in value of long term asset. Compare carrying amt against recoverable value

If Recoverable amt < Carrying Amt, recognise Impairment Loss as non-operating expense.

Recoverable amt — max(asset's net fair value (fair value less costs of disposal), value in use (present value))

IF recoverable amt < carrying amt, recognise impairment loss (non-operating expense) on SCI.

Adjusted JE: DR Impairment Loss, CR Accumulated Impairment Loss

Carrying Amount = Cost - Accumulated Depreciation - Accumulated Impairment loss
Disposal / Sale of PPE -- (1) Discard → Sale Proceed = \$0 | (2) Sell → Sales Proceed = Selling Price Gain or (loss) on disposal = Sales Proceed - Costs of Disposal - Carrying Amt (Non-operating gain or loss on SCI)

If Disposal, pass JE to remove 3 accounts balances: DR Accumulated Depreciation, DR Accumulated Impairment Loss, DR Cash (From Sales)

CR Property, Plant & Equipment (PPE), CR Gain on Disposal (or Debit Loss if < 0)

If Sale: DR Cash, DR Accumulated Depreciation

CR PPE, CR Gain on Sale of Office Equipment (or Debit Loss if < 0)

Intangible Assets -- Identifiable non-monetary asset without physical substance; are rights and privileges that are

long-lived, not held for resale and provide owner with competitive advantage. Internally generated IA are not recognised on balance sheet. Acquired IA are valued at amt paid to acquire through arm's length transaction Goodwill → Recognised only when purchased as part of another company. Exists when value of business > fair

Amortization -- Systemic allocation of depreciable amt of intangible asset over its useful life

 Straight-line method, assume no residual value, Intangibles with infinite life is not amortized Amortization Expense = Cost / Useful Life

DR Amortization Expense (Operating Exp) CR Accumulated Amortization (Contra Asset)

Capitalise vs Expense -- Capitalise if expenditure brings > 1 year of economic benefits

- Revenue / Ordinary repair & Maintenance Expenditure → Operating Expense (report in SCI)

Capital Expenditure (Increase productivity/useful life) - Capitalise then depreciate over remaining life

- Land Improvements (Build new stuff/change contour) → Capitalise (land account), then depreciate - R&D → Expense for research before technological capability, Capitalise for development

Advertising → Expense if future benefits are uncertain.

(10) Financing Activities and Equity

Issuance of Share (no Par / equal Par) -- no paid in capital DR Cash, Cr Ordinary/Preference Shares Issuance of Share (> Par Value) -- When issued above par, it is issued at a premium (paid in capital) DR Cash, CR Ordinary/Preference Shares, CR Paid In Capital in Excess of Par Issuance on non-cash basis -- If fair value of assets cannot be determined, use fair market value DR Asset, CR Ordinary/Preference Shares, CR Paid in Capital in Excess of Par

Share Repurchase/Buyback -- A repurchased share is a treasury share (Debit Balance, Contra-equity)

DR Treasury Share, CR Cash. Reissue Treasury Share above Cost -- The difference between Issue proceeds and Purchase cost is credited to

Paid-in Capital, Treasury Shares, DR Cash, CR Treasury Shares, CR Paid-in Capital, TS

Reissue Treasury Share below Cost -- Debit Paid-in Capital, Treasury Share until 0 amount, then debit Retained

Earnings DR Cash, DR Paid-in Capital, TS, DR Ret Earnings, CR Treasury Shares Dividends -- Distribution of profit with shareholder approval. No dividends are payable for Treasury Shares. Dividends are declared first, then Closed at EOY against Retained Earnings, and then paid later (CR Cash)

Preference Shares -- Have first right to dividends. Paid in arrears and current dividends b4 ordinary shares Share Dividends (20-25% spilt) - Small → Assigned at market value. Large → Assigned at par value

DR Share Dividends CR Share Dividends Distributable (no. of shares * Par Value) CR Paid-in Capital in Excess of Par (if any) // Declare Share Dividends

DR Retained Earnings, CR Share Dividends // Close off to RF // Tssuance (Payment)

DR Share Dividends Distributable, CR Ordinary Shares Share Split -- Increase num. of shares outstanding in same proportion that value decreases. Makes shares cheaper & more accessible.

Comprehensive Income = Net Income + Other Comprehensive Income. - Other common items include

(a) Exchange Differences (b) Unrealised gains/loss from Fair Value thru Other Compre. Income (EVTOCI)

Statement of Cash Flows For the Year Ended December 31, 2022

Operating Activities: Collections from Suppliers Payments to Suppliers Payments for rent Payments to employees Interest received Interest paid Payments for income tax Net cash flows from operating activities Investing Activities: Purchased Land Proceeds from Sale of Equipment уу Financing Activities: Repayment of long-term debt Borrowing of long-term debt 77 Proceeds from the issuance of common stock Payment for cash dividends Net cash flows from financing activities Net increase/decrease in cash Beginning cash balance Ending cash balance

(11) Statement of Cash Flows

Cash comprises of cash on hand and demand deposits. Cash Equivalents are short-term(< 3 months), highly-liquid investments that are readily convertible to known amounts of cash and have insignificant risk of changes in value. Operating Activities -- Primarily derived from principal revenue-producing activities and generally result from transactions

that determine net income. To be sustainable, the business needs to generate net cash inflow from operating activities Investing Activities -- Expenditures made for resources intended to generate future income and cash flows. Only

expenditures that result in a recognised asset are eligible for classification as investing activities.

Financing Activities -- Includes equity/debt financing activities which are cash payments and proceeds arising from transactions whereby cash is obtained from, or repaid to owners / lenders / creditors.

Operating Activities Investing Activities Financing Activities ash receipts from: Cash receipts from Cash receipts from: Sale of goods or services Sale of PPE Issuance of own shares Interest / Dividend Revenue Sale of business segment Borrowing (bonds, notes, Sale of investments in FVTPL securities Sale of investments in securities other than mortgages) ash payments to: FVTPL securities Cash payments to: Suppliers for inventory purchases Collection of principal on loans Stockholders as dividends Employees for services Cash payments to: Repay principal amounts Purchase PPF Government for taxes orrowed Purchase debt or equity securities of other - Renurchase an entity's own Lenders for interest expense - Brokers for purchase of FVTPL securities entities other than FVTPL securities shares (treasury shares) Other expenses (utilities, rent) Make loans to other entities Type of Cash Flow IFRS Analysis of Statement of Cash Flows Operating or Financing Activity ash naid for interest (interest expense) help investors, creditors and users Cash paid for income taxes (income tax Operating Activity make decisions. Examining various expense) categories of cash flows yield insights Cash received with interest (interest revenue) Operating or Investing Activity into the health and current strategy of a ash received from dividends (dividend Operating or Investing Activity

Prepare Statement of Cash Flows using Cash Ledger Extract cash receipts and payments transactions

Cash paid for dividends declared by Company Financing or Operating Activity

- Ignore non-cash items (depreciation, amortisation, ECL etc.)
- 3. Review transactions and classify by activity

(12) Financial Statement Analysis

evenue)

Vertical Analysis (Common Size Financial Statements) - Compare with other companies as percentage of net sales (SCI) or total assets (BS) Horizontal Analysis -- Compare FS data between companies and/or Compare Trend (Year on year performance)

Percentage of Change = ((Current period Amt - Base period Amt) / Base Period Amt) * 100 %

Trend Percent = (Current period Amt / Base Period Amt) * 100 %

Ordinary Shares (\$1 par value, 6000 shares issued, 5990 shares outstanding).... 6000

Treasury shares are described as being issued but not outstanding. Thus 6000 common shares have been ssued, but only 5990 are outstanding because 10 are held as treasury shares

Paid-in capital in Excess of Par, Preference Shares.... Paid-in capital in Excess of Par, Ordinary Shares.....

Total contributed capital: .

Total Equity....

from customers (4) Pay cash to suppliers .-- refers to the days required for a business on average from the time when inventory is purchases to the time when cash is collected from the customer who purchases the inventory Operating Cycle Days = Number of Days Sales in Inventory (Step 1 → 2) + Average Collection Period (Step Number of Davs' Purchases in Accts Payable -- Measure of how well operating cash flow is being managed. It is the

average length of time between purchase of inventory on account and cash payment for that inventory. Number of Days Purchases in Accts Payable = (365/Net Purchases) * Average Accounts Payable

s Turnover = Net Purchases / Average Accounts Pavable

Number of Days Purchases in Accounts Payable [43 days] No. of Days of Operating Cycle which requires financing [79 days] (reduce this number) Improve Operating Cycle Financing by: (1) Lengthen number of days purchases in accts payable (negotiate for longer credit period with supplier) (2) Shorten collection period from customers (credit check & follow-up) (3) Reduce number of days sales in inventory thru Just-in-time inventory management system and data analytics to reduce inventory level. **DuPont Framework** -- A systematic approach to break down the **return on equity (ROE)** into 3 ratios: return on sales, asset

turnover and assets to equity ratio. It allows analysts to identify factors that cause ROE to change, and provide insight of the company's areas of strength and weaknesses in terms of profitability, efficiency and leverage. Profitability -- Ability to generate net income per dollar of sales | Efficiency -- Ability to generate sales through the use of

assets | Leverage -- Degree to which the company uses borrowed funds instead of Invested funds Return on equity = Profitability (Return on Sales) * Efficiency (Asset Turnover) * Leverage (Asset-to-Equity Ratio)

ROE = (Net income / Net Sales) * (Net Sales / Average Total Assets) * (Average Total Assets / Average Total Equity) Sample Company Note on Income Statement:

30a. Return on Equity = Return on Sales * Asset Turnover * Asset-to-Equity Ratio 30b. ROE = (Net income / Net Sales) * (Net Sales / Average Total Assets) * (Average Total Assets / Average Total Equity) Operating Cycle (OC) (1) Purchase goods and services on credit (2) Sell goods and services to customers (4) Receive cash Cash Flow Analysis Analysis O I F company building up pile of cash; very liquid company, possibly looking for acquisition ompany using CF generated from ops to buy fixed assets and pay down debt or pay owner

Positive cash flow from operations is

necessary for long-term success.

All the Equations

1. Asset = Liabilities + Equity

Net Income = Revenue - Expenses.

3. Comprehensive Income = Net Income + Other Comprehensive Income

. Net Accounts Receivable = Accounts Receivable - Loss Allowance

12a. COGS = Beginning Inventory + Net Purchases - Ending Inventory

12b. COGS = Cost of goods available for sale - Cost of Ending Inventory

15. Tax Payable = Output Tax (from Sales) - Input Tax (from "raw" Purchases)

20a. Declining Balance Depreciation = Depreciation Rate * Carrying Amount

21a. Impairment Loss of PPE = Carrying Amount - Recoverable Amount

collect Receivables) // Shorter is better for company cash flow

+ Number of days purchases in Accounts Payable

21b. Recoverable Amt = max((Fair Value - Cost of Disposal), Value in Use)

22. Gain or Loss on Disposal = Sales Proceed - Cost of Disposal - Carrying Amount

23. Goodwill = Purchase price - fair market value of net assets (of acquired company)

Accounts Payable -- (Financing can be from borrowings or shareholders equity)

29. Purchases Turnover = Net Purchases / Average Accounts Payable

urrent Ratio

Acid-test (quick) Ratio

Price-Farnings Ratio

Cash Flow-to-Net Incom

ash flow adequacy Ratio

24. Amortization Expense = Cost / Useful Life (!! Only for Intangible Asset with finite life)

16. Basic Earnings Per share = Net Income / Average num of shares outstanding

17. Depreciation Amt = Cost - Residual Value | Carrying Amt = Cost - Accumulated Depreciation

19. Units-of-production Depreciation = ((Cost - Residual Value) / Total Units) * Units produced

20b. Declining Balance Depreciation Rate = (1 / Estimated Life) * rate | Double DB = (1 / EL) * 2

25. Comprehensive Income = Net Income ± Exchange Diff ± Unrealized gains/loss from FVTOCI

27. Number of Days' purchases in Accts Payable = (365/ Net Purchases) * Average Accounts Payable

9. Interest Revenue = Face Value * Annual Interest Rate * Duration

10. AR Turnover = Net Sales / Average Accounts Receivable

13. Inventory Turnover = COGS / Average Inventory

11. Avg Collection Period = 365 / Accounts Receivable Turnover

14. Number of Days Sales in Inventory = 365 / Inventory Turnover

Straight-Line Depreciation = (Cost - Residual Value) / Useful Life

5. Ending Retained Earnings = Beginning Retained Earnings + Net Income - Dividends 6. Ending Cash = Beginning Cash ± Operating ± Investing ± Financing Activities

Net Sales = Sales Revenue - Sales Discounts - Sales Returns & Allowances

5. Ending Equity = Beginning Equity + Increase in Capital Stock + Net Income - Dividends + Other Comprehensive Income

!!!(Carrying Amt cannot be lower than residual value, At end of useful life, dep exp = prev year carrying amt - residual value)

26. Operating cycle days = Num of Days' sales in Inventory (from purchase to sales) + Average Collection Period (Days to

28b. No. of Days Sales in Inventory + Average Collection Period = No. of Days of Operating Cycle which requires financing

28a. No. of Days of Operating Cycle which requires financing = Operating Cycle Days - Number of Days purchases in

4. Gross Profit = Net Sales Revenue - Cost of Goods Sold

Net Sales Revenue = Sales Revenue - Sales Returns & Sales Disco

Paid-in capital in Excess of Par, Ordinary Shares

Total contributed capital plus retained earnings

Add: Accumulated other Comprehensive Income (if any)

Less: Treasury Shares
Add: Paid-in Capital, Treasury Shares

Total contributed capital:

Total Equity and Liabilities

Retained Earnings

Ordinary Shares (Syy par value, yyy shares issued, yyy shares outstanding)
Paid-in capital in Excess of Par, Preference Shares

Monitor

Monitor

company using Cash from ops and sale of fixed assets to pay down debt or pay owners ompany using Cash from ops and borrowing (or owner investment) to expand company Ops CF problems covered by sale of fixed assets, borrowing or investments Company growing rapidly but has shortfall in Ops CF. Purchase of fixed assets financed by longterm debt or new investments + - Company financing Ops CF shortage and payments to creditors via sale of fixed assets - - Company using cash reserves to finance ops shortfall and pay long-term creditors and investors Liquidity Ratios - Measure company ability to pay debts in short-run. Included current and quick ratio Efficiency - Measure company's ability to generate income with assets

Current Assets

Current Assets - Inventories - Prepayments

Market value of shares _ Price per share

Cash flow from operations Net Income

Cash flow from operations

Cash paid for capital expenditures

Cash Flow-to-Net Income Ratio - Highlights when there are significant differences between cash flow from operations and net income — Close to 1 means net income is well supported by operating cash flow Cash Flow Adequacy Ratio - Demonstrates capability to finance capital expansion through cash from ops

Net Income

Earnings per share

Short-term debt-pavir

mmediate short-tern

Efficiency of accounts

Efficiency of Inventor

Efficiency of Fixed

Creditor financing and

Ability to meet interest

Overall profitability of

Efficiency of assets in oroducing sales

rofitability of owner vestmen

Net income per each ordinary share

Market value relative t

Relationships of cash

Capability of covering capital expenditures

and net income

ırnings

Debt vs Equity

eceivable

ssets

General Explanation

For the Year F	Ended December 31, 2022		The Guide Hereina Guide Hereina Guide Hereina a Guide Biode
Sales Revenue	Indea December 31, 2022	XXX	Gross Profit = Net Sales Revenue - Cost of Goods Sold
Cost of goods sold		xxx	Operating Income = Gross Profit - Operating Expenses
Gross margin		xxx	Income before taxes = Operating Income ± Other revenue & expense
Operating expenses:			Net Income = Income before taxes - Income tax expense
Selling Expenses:			Sample Company
Sales salaries expense	XXX		Balance Sheet
Sales commissions expense	XXX		Current Assets:
Advertising expense	XXX		Cash and Equivalents
Delivery expense	XXX		Receivables
Total selling expenses	XXX		Inventories
General and administrative expenses:			Prepaid expense and other current assets
Administrative salaries expense	XXX		Total current assets
Rent expense, office equipment	XXX		Non-current Assets:
Property tax expense	XXX		Property, Plant and Equipment
Miscellaneous expenses	XXX		Land
Total general and administrative expenses	XXX		Plant and Equipment
Total operating expenses		XXX	Less: Accumulated Depreciation
Operating income		XXX	Total property, plant and equipment, net
Other revenues and expenses:			Total Assets
Dividend revenue	XXX		Total Possis
Gain on sale of land	XXX		Current Liabilities:
Interest expense	(xxx)		Short-term loans
Net other revenues and expenses		(xxx)	Accounts Payable
Income from operations before income taxes		XXX	Salary Payable
Income taxes (xx%)		XXX	Income Tax payable
Net income		XXX	Other accrued liabilities
Other comprehensive income		XXX	Total current liabilities
Total comprehensive income		XXX	Non-current Liabilities:
Earnings per share (xxx shares outstanding)		XXX	Bonds payable
* Note: Operating expenses are separated into Cost of	O O-I-I O-III E		Long-term bank loans
administrative expenses	Goods Sold, Selling Expenses and Genera	and	Other liabilities
			Total non-current liabilities
Sample Co			Total Liabilities
Equity S	ection		
Contributed Capital:			Equity:
Preference Shares (\$40 par value, 1000 shares issued	and outstanding)40,000		Preference Shares (\$xx par value, xxx shares issued and outstanding)
Preference Shares (\$40 par value, 1000 shares issued	and outstanding)40,000		Preference Shares (\$xx par value, xxx shares issued and outs

. 100,000

..394.400

(600)

ounts		Current Liabilities			
ses	Accounts Receivable Turnover	Net Sales Average Accounts Receivable			
	Inventory Turnover	Cost of Goods Sold Average Inventory			
	Fixed Asset (PPE) Turnover	Net Sales Average Fixed Assets (PPE)			
	Solvency - Measure company's ability to pay debts when due				
	Debt Ratio	Total Liabilities Total Assets			
	Debt-to-Equity Ratio	Total Liabilities Total Equity			
	Times Interest Earned Ratio	Income b4 interests and taxes (ops profit) Annual Interest Expenses			
	Profitability - Measure of company's operating success for a given period of time				
	Profit Margin (Return on Sales)	Net Income Net Sales			
	Return on Assets	Net Income Average Total Assets			
	Asset Turnover	Net Sales Average Total Assets			
	Return on Equity	Net Income — Preference Dividends Average Total Equity			
	Earnings per Share	Net Income — Preference Dividends Weighted Average common shares outstanding			
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