



Accounting

Middle term exam: 07/04 at 12:00 (30%)

Exercise in class: 20/05 (20%)

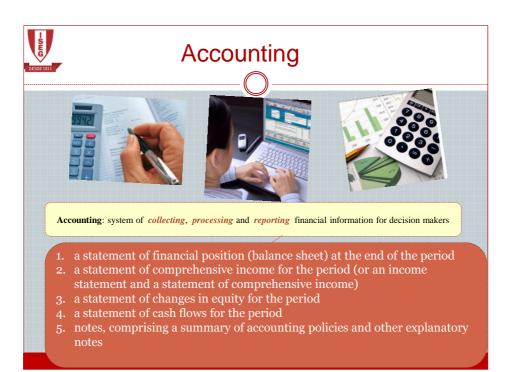
Final Exams

EN: 03/06 at 9:00 (50%)

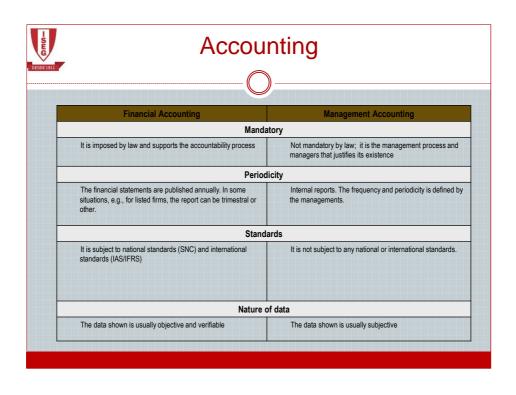
ER: 01/07 at 9:00

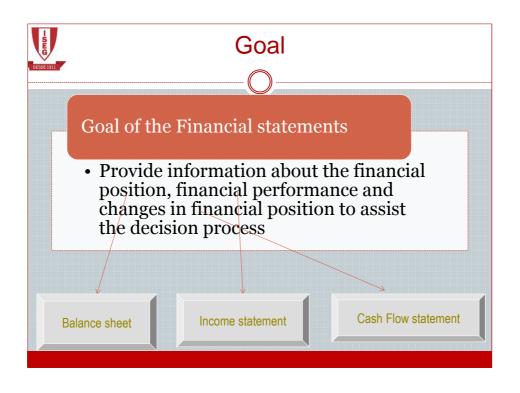
Accounting I

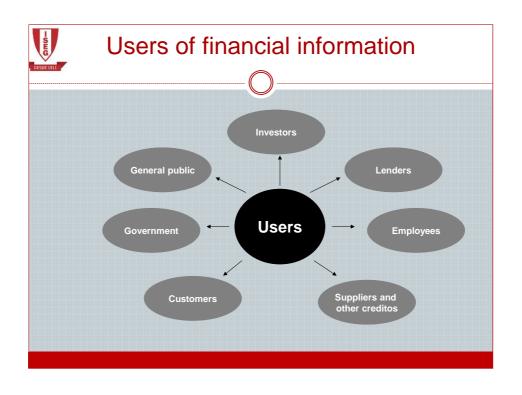
GOALS AND MAIN CONCEPTS ON FINANCIAL ACCOUNTING

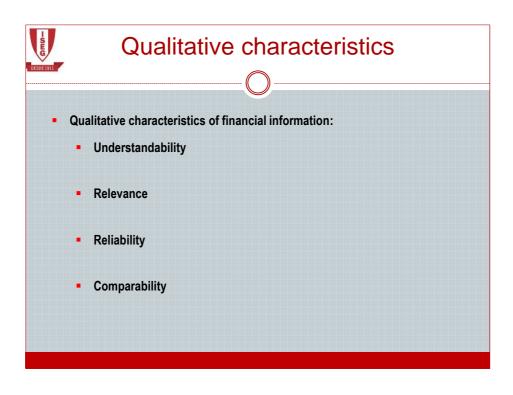


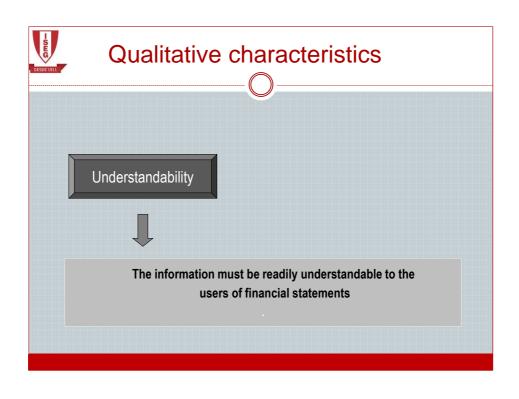


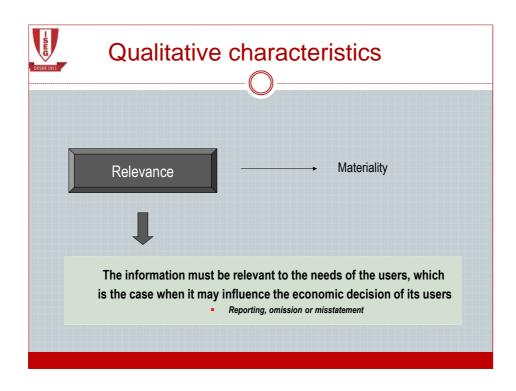


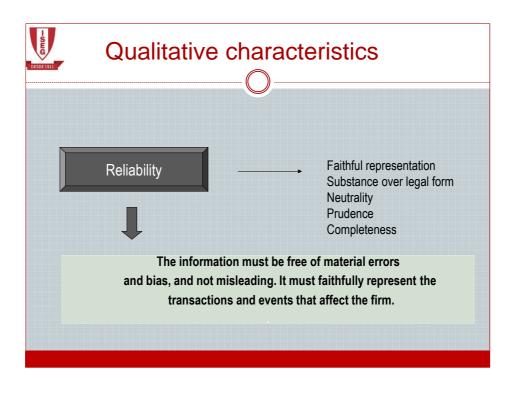






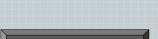








Qualitative characteristics



Comparability

- Consistency in time (Longitudinal comparison)
- Consistency in space (Cross sectional comparison)



The information must be comparable to the financial information presented for other accounting periods, so that the users can identify trends in the performance and financial position of the firm.

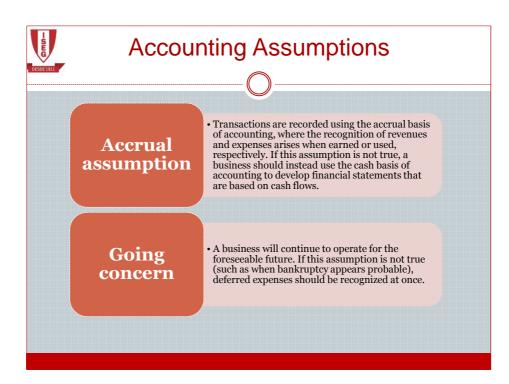
Users must also be able to compare the financial reports of different entities in order to evaluate their relative financial position, financial performance and cash flows.

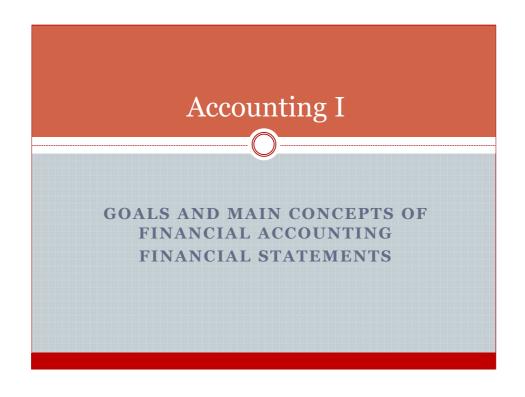


Qualitative characteristics



- Constraints on Relevant and Reliable Information
 - Timeliness If there is undue delay in the reporting of information it may lose its relevance.
 - Balance between Benefit and Cost The benefits derived from information should exceed the cost of providing it.
 - Balance between Qualitative Characteristics the aim is to achieve an appropriate balance among the characteristics in order to meet the objective of financial reports
 - True and Fair View/Fair Presentation the application (...) of appropriate
 accounting standards normally results in financial reports that convey what is
 generally understood as a true and fair view of, or as presenting fairly such
 information.







Enterprise value



Set of elements (assets and liabilities) subject to management and assigned to a particular purpose.

Composition: nature of the elements: Assets, Liabilities and Shareholder's Equity

Value:

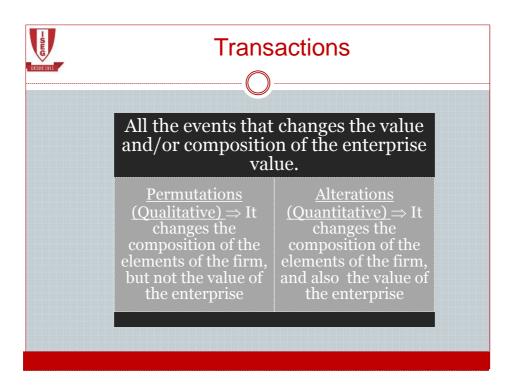
Value of the Assets minus value od the Liabilities

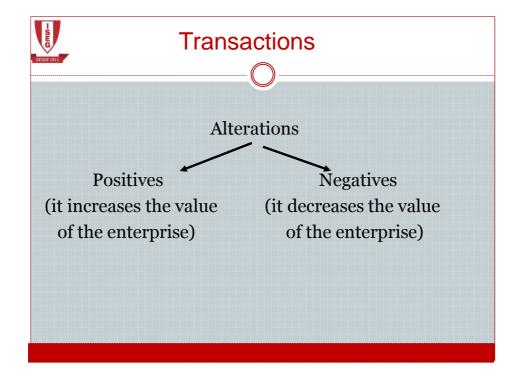


Patrimony

When looking at the patrimony we should consider:

- (a) <u>Composition</u> = nature of elements Constitutive (Assets and Liabilities)
- (b) Value (Assets Liabilities)





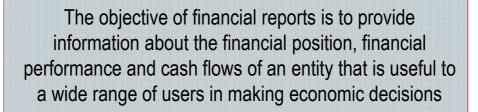


Patrimony – fact sheet

- It is a fact sheet any occurrence involving changes in the firm composition and/or value
- Qualitative or permutation fact sheets ⇒ variation in the composition of the patrimony, but not in its value.
- Quantitative or modifying fact sheets ⇒ variation in the composition and value of the patrimony.



Financial Statements





Financial Statements



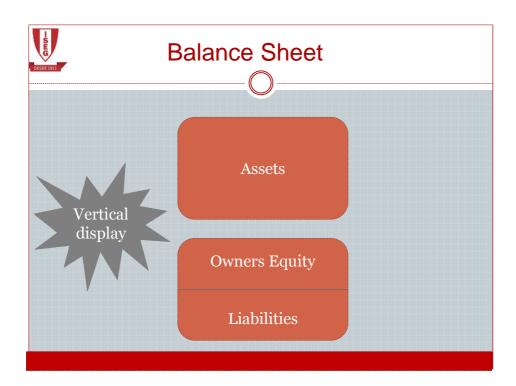
- 1. Statement of financial position (*balance sheet*) at the end of the period
- **2. Statement** of comprehensive **income** for the period (or an income statement and a statement of comprehensive income)
- 3. Statement of changes in equity for the period
- 4. Statement of cash flows for the period
- 5. Notes



Balance sheet



- The balance sheet (also called the statement of financial position) shows the financial status of a company at a particular instant in time
- The left side lists the resources of the firm (investment)
- The right side lists the claims against those resources (funding)



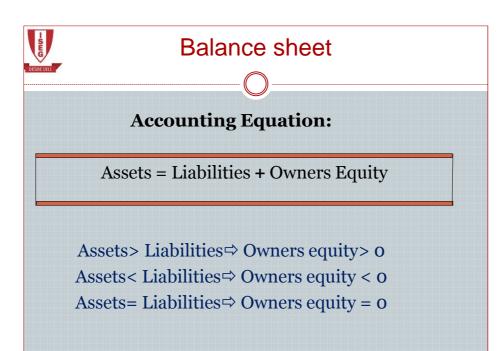


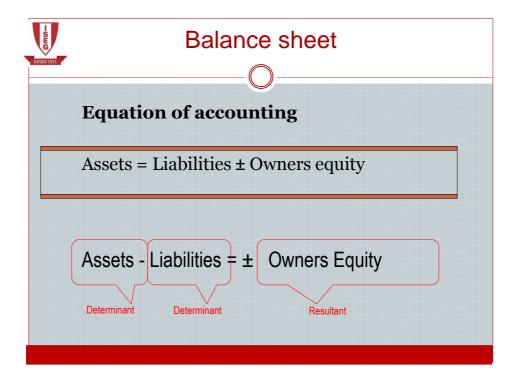
Financial Statements



- Recognition of the elements of the financial statements:
 - Asset is recognised in the balance sheet when it is probable
 that the future economic benefits will flow to the entity and the
 asset has a cost or value that can be measured reliably.
 - Liability is recognised in the balance sheet when it is probable
 that an outflow of resources embodying economic benefits will
 result from the settlement of a present obligation and the
 amount at which the settlement will take place can be
 measured reliably.

See Conceptual Framework







Expanded Balance Sheet Equation

(1) Assets = Liabilities + Stockholders' Equity

(2) Assets = Liabilities + Paid-in Capital + Retained Earnings

(3) Assets = Liabilities + Paid-in Capital + Revenues - Expenses



Classified Balance Sheet

- A **classified balance sheet** further groups asset, liability, and owners' equity accounts into subcategories
- Assets are classified into two groups:
 - Noncurrent (or long-term) assets
 - Current assets
- · Liabilities are classified into
 - Noncurrent (or long-term) liabilities
 - Current liabilities

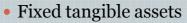


Classified Balance Sheet

- **Current assets** are cash and other assets that a company expects to convert to cash, sell, or consume during the next 12 months (or within the normal operating cycle if longer)
- Current assets are listed in the order in which they are likely to be converted to cash during the coming year
- In Portugal, with SNC: Assets presented in order of liquidity (less liquid to more liquid).
- Noncurrent are assets owned over 12 months



Classification of assets



- Intangible assets
- Investment Properties
- Financial investments
- Inventories
- Biological Assets
- Accounts receivable
- Bank deposits

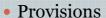


Liabilities

- Current liabilities are those that come due within the next year (or within the operating cycle if longer)
- **Non-current liabilities** are those that come due not earlier than 12 months after the balance sheet reporting.



Classification of Liabilities



- Loans obtained
- Deferred taxes
- Accounts payable
- State and other public entities

In Portugal, with SNC: Liabilities are presented in order of decreasing maturity (from the largest maturity to the smallest).



Owners Equity

- Represents the position of the owners of the firm
- The values are ordered according to the historical formation
 - o Paid in capital
 - o Legal Reserves
 - o Other reserves
 - Retained earnings
 - o Net income of the period
 - o Difference between book value and market value.

Accounting I

INCOME STATEMENT



Financial Statements



- Definition of the elements of financial statements:
 - Related with performance
 - Income is increases in economic benefits during the accounting period in the form of inflows or enhancements of assets or decreases of liabilities that result in increases in equity, other than those relating to contributions from equity participants
 - => Revenue and gains
 - Expenses are decreases in economic benefits during the accounting period in the form of outflows or depletions of assets or incurrences of liabilities that result in decreases in equity, other than those relating to distributions to equity participants.
 - => Expenses and losses

See Conceptual Framework



Financial Flow



- 1 Related with the Financial position (Balance Sheet)
 - Obligation to pay: acquisition of goods and services regardless of their payment or use (recognition in the Balance Sheet as a liability);
 - <u>Right to receive</u>: sales of goods and services regardless of their receipt or production (recognition in the Balance Sheet as an Asset).



Economic Flow



2 – Related with Performance (Income Statement)

- Expenses: consumption and use of goods and services regardless of their acquisition and payment (recognition in the Income Statement as expenses)
- <u>Revenues</u>: production of goods and services regardless of their sale and receipt (recognition in the Income Statement as revenues)

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Monetary Flow



3 - Related with cash flows (Cash Flow Statement)

- <u>Cash out flow</u>: corresponds to exits of cash in the company regardless of the period of acquisition and use of goods and services
- <u>Cash in flow</u>: corresponds to entries of cash in the company regardless of the period of the sale and production



The Income Statement

- An **income statement** is a report of all revenues and expenses pertaining to a specific time period
- It shows the economic performance of the company
- **Net income** = revenues minus all expenses
- A **net loss** occurs if expenses exceed revenues





The Income Statement

- Income Statement by Nature:
 - Expenses are grouped according to its nature, independently of the department or function that supported them



- Income Statement by functions:
 - The results are grouped having into account the department or function that had them





Net Income statement – by nature

- Expenses are grouped according to its nature, independently of the department or function that supported them
 - o Cost of good sold (cost of sales);
 - External Services;
 - Wages
 - o Impairments;
 - Amortizations and Depreciations;
 - o etc

Goal: Net income (= Balance sheet)



Net Income statement – by functions



The results are grouped having into account the department or function that had them

- Cost of sales and services;
- Distribution costs
- Administrative costs
- o R&D costs
- Financing costs;

Net income (= Balance sheet)

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Net Income statement – by nature



Sales and service revenues

Cost of sales and services

External Supplies and Services Expenses

Staff expenses

Impairments

Provisions

Other revenues

Other expenses

EBITDA – Earnings Before Interest, Taxes, Depreciation & Amortization



Net Income statement – by nature



Depreciation and amortization expenses

Operational Result

Interest revenues

Interest expenses

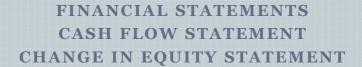
Result before taxes

Income Tax

Net Income (of the period)

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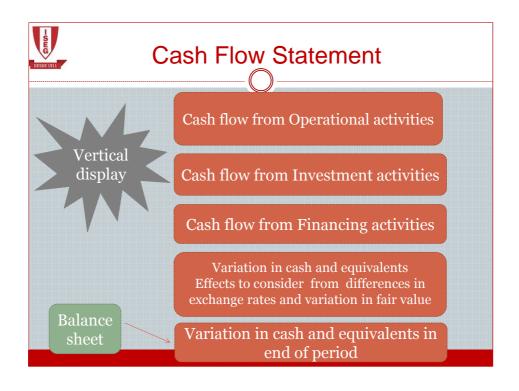
Accounting I





Cash Flow statement

- Shows where the cash comes from and where it was used
- Shows payments and receipts
- It is presented in vertical format, showing the values for years N and N-1.





Financial Statements

Statement of Cash Flows

- 1 Cash Flows from Operations
 Collections, Payments, Wages
- Cash Flows from Investing
 Purchase & Sales of PP&E, Long Term Securities, Making Loans
- 3 Cash Flows from Financing
 Borrowing, Repaying
 Issuing and Redeeming Debt & Equity
 Dividends



Cash Flow statement

- Firms can have revenues but, because there is the possibility to pay/received other way that not in cash (payment/receipts for credit), these may happened in several different moments of time=> hence, a revenue does not mean a receipt of money
- It helps to determine the capacity to receive and pay in cash.
 - Liquidity
 - ➤ May be a sign of the continuity of the firm!



Variation in OE statement

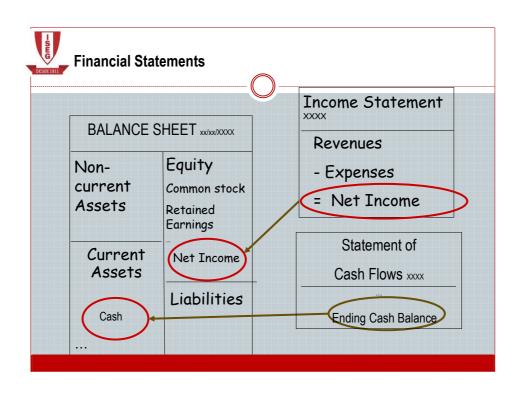
- Aims to show the facts that changed owners equity, during a period of time.
- It is presented in vertical format, showing the values for years N and N-1.

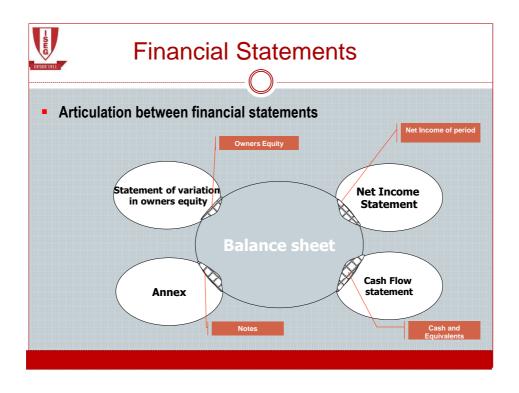




Annex or Notes

- The other financial statements are quantitative statements
- In the Annex the predominant information is qualitative (or narrative) and it is connected with all other financial statements







In summary...

- Transactions can have an effect on financial statements:
 - · Financial position
 - Performance
 - · Cash flow
 - Variation of owners' equity
- Transactions can be disclosed on the notes

Accounting I



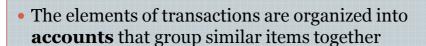


Accounts

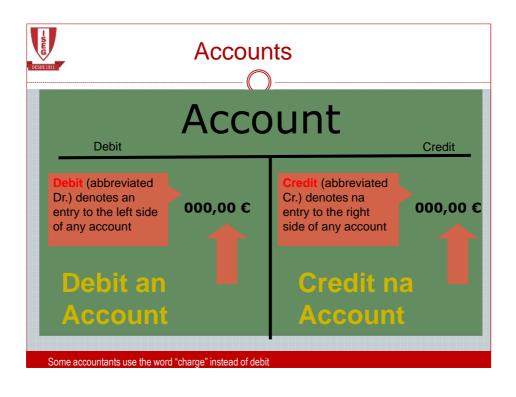
- An account is a summary record of the changes in a particular asset, liability, or owners' equity item
- The double-entry accounting system records each transaction in at least two accounts
- A compound entry affects more than two accounts

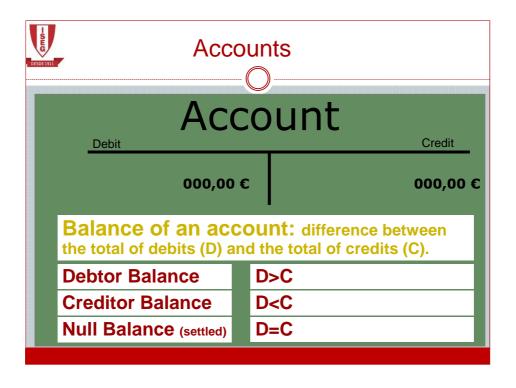


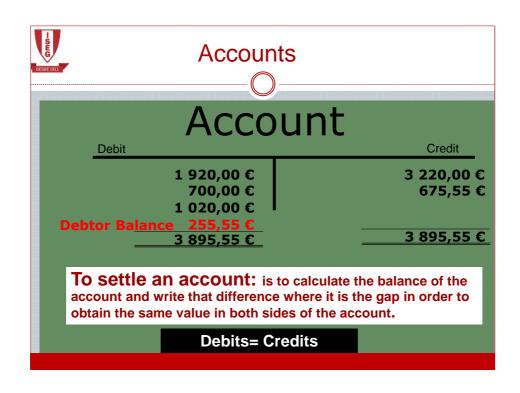
Accounts

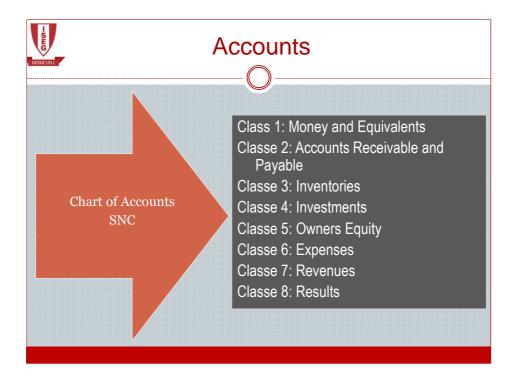


- In a double-entry system, a **ledger** contains the records for a group of related accounts
- A **general ledger** is the collection of accounts that accumulate the amounts reported in the financial statements





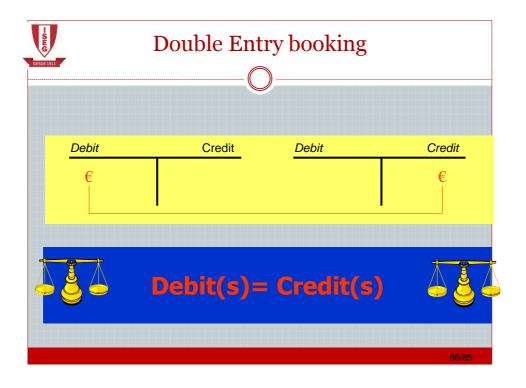






Double Entry booking

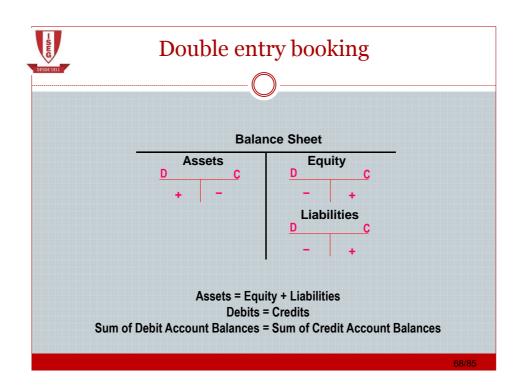
- Each transaction affects at least two accounts
- For each transaction debit(s) are equal to credit(s)
- The process of creating a new T-account in preparation for recording a transaction is called opening the account
- An account balance is the difference between the total left-side and right-side amounts, or vice versa, according to the type of account, at any particular time





Double entry booking

- · Asset accounts have left-side balances
 - Entries on the left side (debit) increase asset account balances
 - o Entries on the right side (credit) decrease them
- Liabilities and owners' equity accounts have right-side balances
 - Entries on the right side (credit) increase their balances
 - o Entries on the left side (debit) decrease them
- Revenue is written on the right side (credit) since they represent increases in net income
- Expenses are written on the left side (debit) since they represent decreases in net income



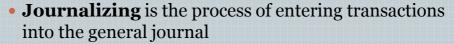


Recording Process

- The **general journal** is a formal chronological listing of each transaction and how it affects the balances in the accounts
- Transactions are entered into the ledger
- Each record has
 - Date
 - Title of the account;
 - Description
 - Value



Journalizing Transactions



- A **journal entry** is an analysis of all the effects of a single transaction on the various accounts, usually accompanied by an explanation
- A compound entry means that a single transaction affects more than two accounts

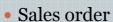


Journalizing Transactions

- · Classification of journal entries
 - Simple
 - · Complex.

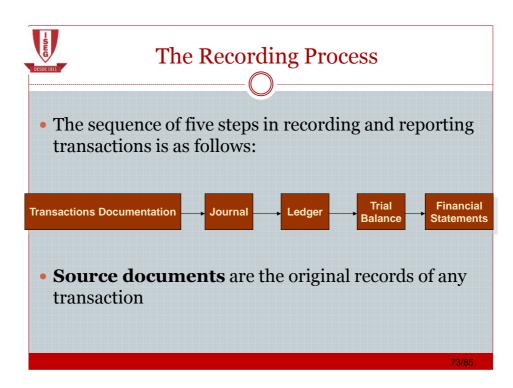


Documents



- Purchase order
- Shipping list
- Invoice
- Receipt
- Debit Note
- Credit Note
- Cheque

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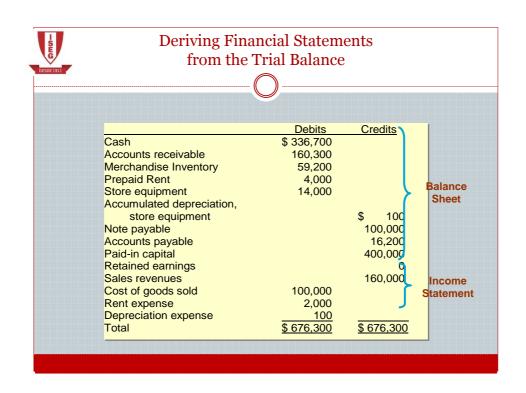
Preparing the Trial Balance

- A trial balance is a list of all the accounts with their balances
- The purpose of the trial balance is twofold:
 - Proving whether the total debits equal the total credits in the ledger
 - Summarizing the balances in the ledger accounts in preparation to construct the financial statements



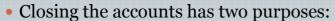
Preparing the Trial Balance

- The trial balance is prepared with the accounts in the following order:
 - Asset accounts
 - Liability accounts
 - o Stockholders' equity accounts
 - Revenue accounts
 - Expense accounts
- The trial balance is the springboard for preparing the balance sheet and the income statement





Closing the Accounts



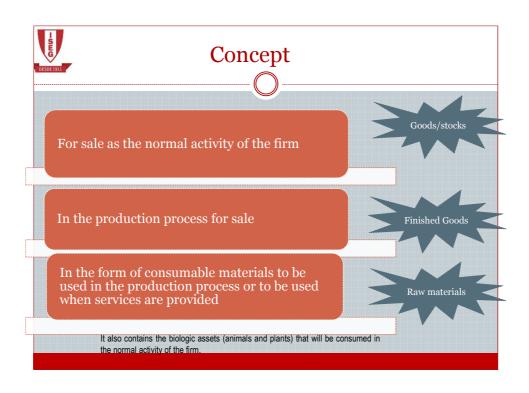
- It transfers the balances of the "temporary" stockholders' equity accounts (revenues and expenses) to the "permanent" stockholders' equity account (retained earnings)
- It makes the revenues and expense accounts have a zero balance, which readies them for the next period's transactions

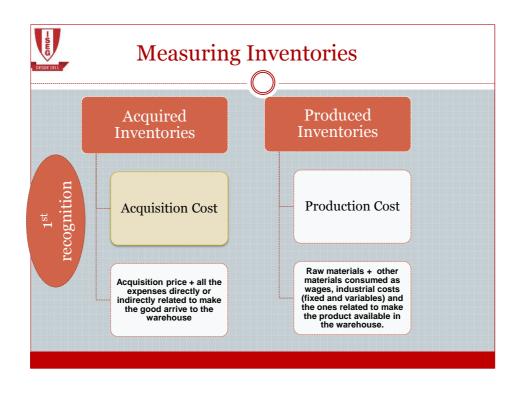
Accounting I

6TH CLASS

OPERATING ACTIVITIES

INVENTORIES







Measuring Inventories – after initial recognition

The lowest of

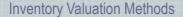
Cost (acquisition/ production

Net sales value (sales value – costs of finishing the good/costs of sale)

Estimated selling price- Estimated cost to finish production
- Cost to sale products.



INVENTORIES

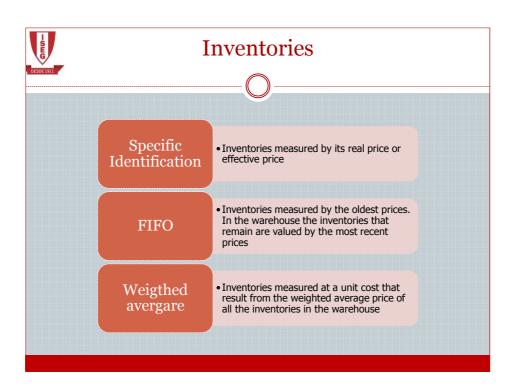


The acquisition price of inventories is not always the same;

It varies with time (prices are not stable and are depending on the law of demand and supply)

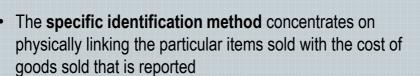
When there is inflation the prices rise.

Because of these reasons, there is the need to adopt some **criteria** to value the stocks in the firm that are sold and the ones that are on the warehouse at the end of the year.





Specific Identification



- This method is relatively easy to use for expensive lowvolume merchandise
- The use of bar codes and scanning equipment makes specific identification economically feasible for many companies

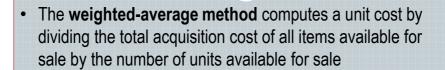


FIFO

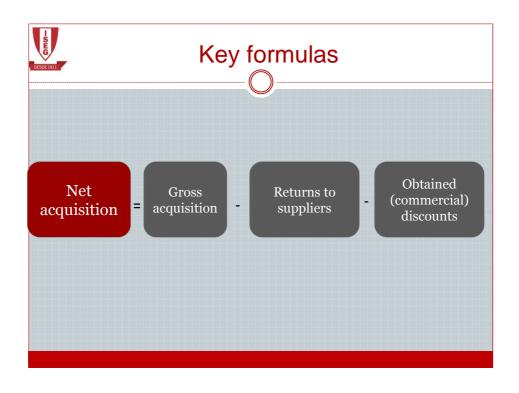
- FIFO assigns the cost of the <u>earliest</u> acquired units to cost of goods sold
- The costs of the newer units is assigned to the units in ending inventory
- FIFO provides inventory valuations that closely approximate the actual market value of the inventory at the balance sheet date
- In periods of rising prices, FIFO leads to higher net income

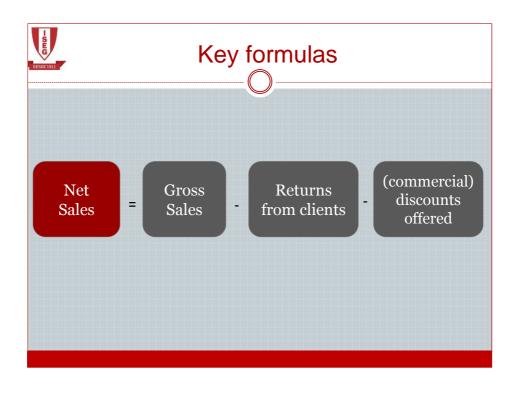


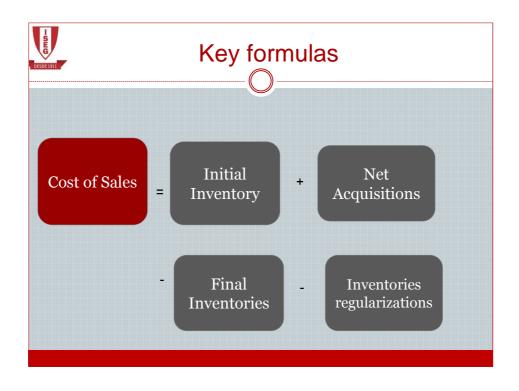
Weighted Average

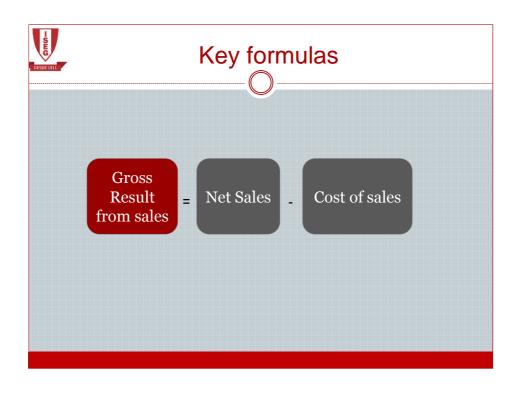


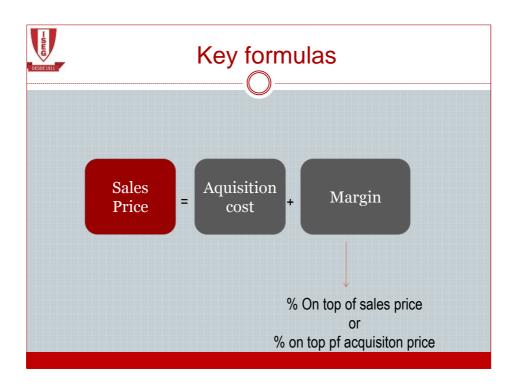
 The weighted-average method produces gross profit somewhere between that obtained under FIFO and LIFO















Perpetual and Periodic Inventory Systems



There are two main systems for keeping inventory records:

- Perpetual system
- · Periodic system

The **perpetual inventory system** keeps a continuous record of inventories and cost of goods sold

The **periodic inventory system** computes cost of goods sold and an updated inventory balance only at the end of the accounting period



Inventory systems

Perpetual inventory system

- · Register all entrances of stocks
- So, at any time the firm knows
 - The quantity of products/stock in the warehouse;
 - The value of those stocks; and
 - The Margin after each sale.

Required system for Large and Medium Companies applying SNC. Only small companies can use the periodic inventory system.



Inventory systems

Periodic inventory system

- We do not use the inventories accounts at each entry and exit of inventories.
- The physical count of the inventories and its valuation needs to be done periodically in order to obtain the results of sales.



Inventory systems

Periodic inventory system

- Inventories (Merchandise/Raw materials) is not used after the acquisition or sale of products
- The firms only knows:
 - The quantity of stock in the warehouse.
 - The value of acquisitions and beginning of the year inventory
- The physical counting of stock and respectively valuation is essential to calculate the Cost of good sold in the end of the year



Periodic Inventory System

Under the periodic system, the calculation of cost of goods sold is delayed until there is a physical count:

COGS = Beginning of the year Inventories

- + Acquisitions of inventories
- End of the year inventories
- +/- Reclassification/Regularization of inventories

