

Study Guide to accompany

Walgenbach    Dittrich    Hanson

# FINANCIAL ACCOUNTING

An Introduction

Third Edition

Imogene A. Posey

Study Guide to accompany  
Walgenbach    Dittrich    Hanson  
**Financial Accounting:**

An Introduction  
Third Edition

**Imogene A. Posey**  
*The University of Tennessee*



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# To the Student

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This Study Guide was prepared to assist you in mastering the introductory concepts in *Financial Accounting: An Introduction*, Third Edition, by Walgenbach, Dittrich, and Hanson. Thoughtful use of the Study Guide will enable you to determine how well you understand the basic ideas and procedures in the textbook.

To use the Study Guide effectively you should

1. Study each textbook chapter systematically.
2. Study carefully the chapter review given in the Study Guide. If you find statements you do not understand, review the related materials in the textbook.
3. Use the Test Your Knowledge section to check your understanding of the key concepts presented in the chapter. If your answers do not agree with those suggested in the Study Guide, reread the Study Guide review and the related textbook materials.
4. Complete the exercises in the Study Guide. These relatively simple, short exercises cover the specific concepts of the material presented in the textbook. Compare your answers with the solutions provided and review any areas requiring additional study.

Completion of the above steps should prepare you to solve the more difficult problems in the textbook. The Study Guide can also serve as a basis for a systematic review in preparation for examinations or for a general review of introductory concepts before you proceed to more advanced levels of accounting.

I would like to express my appreciation to Professor Norman E. Dittrich for his helpful suggestions and encouragement in the preparation of this Study Guide and to Professors Paul H. Walgenbach and Ernest I. Hanson for their help and encouragement and their many suggestions for improvements.

IMOGENE A. POSEY

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# ACCOUNTING: AN INFORMATION SYSTEM

# 1

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## CHAPTER REVIEW

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1. The accounting process consists of (a) **recording**, (b) **classifying**, and (c) **summarizing** financial data in a form that serves the needs of the intended user.
2. Management may request any type of report that it finds useful for decision making; often these reports are based on historical data.
3. Most companies must file numerous tax returns for various governmental agencies, and many of these companies file special reports with appropriate regulatory agencies that may indicate rules, conditions, or definitions for the report's preparation.
4. As a result of the need for comparable comprehensive financial accounting statements for investors, creditors, and other outsiders, **generally accepted accounting principles** have evolved over the years as guidelines for accounting practices.
5. Although most accountants are employed by private business firms, performing various recording, reporting, and planning functions, others serve as independent certified public accountants or work for some branch of the government.
6. **Certified public accountants** are licensed by the state and provide services of many kinds, including independent auditing of financial statements to render an opinion on the fairness and reliability of financial reports.
7. The Certificate in Management Accounting (CMA), sponsored by the National Association of Accountants, is evidence of one's competence in accounting for management purposes.
8. The **balance sheet**, one of the basic financial statements, portrays the position of the business entity at a particular point in time by showing assets, liabilities, and owners' equity.
9. The balance sheet equation can be expressed as **Assets = Liabilities + Owners' Equity**. This equation is the basic tool for analyzing all the transactions of a business entity.
10. The **income statement** presents the results of the firm's operations over a specified period of time. Revenues and expenses incurred in earning the revenue are matched on the income statement.
11. **Net income** is determined by deducting expenses (amounts incurred for supplies and services or assets used up) from revenues (the amounts due or received from customers for services or goods provided).

12. Changes in financial position are reported for a specific period in a **statement of changes in financial position**. The sources and uses of funds, often defined as working capital, are reported in this statement. Changes in the components of the fund are also reported in the statement.
13. Activities of an organization are divided into time periods, often annual, for the preparation of accounting reports.
14. The accounting entity concept dictates that separate records be kept for distinct business units apart from their owners' personal finances and that separate financial reports be presented.
15. Accounting records are kept on a historical cost basis, less appropriate expiration; and the dollar is the monetary unit in the United States.
16. Objective evidence or estimates supported by objective analyses are important because accounting data are most useful when objective and verifiable.
17. The "going concern" concept is based on the presumption that a business firm will continue to operate indefinitely. This concept allows the accountant to assume assets will be used in the business.
18. In **accrual accounting**, revenues are recorded when goods are transferred or services are rendered, and expenses are recorded when assets are consumed or services are used.
19. It is not necessary for cash to change hands for a business to earn revenues or record expenses; the creation of an account receivable indicates an increase in assets, and the increase in liabilities or the reduction of assets can indicate the incurrence of an expense.
20. Before financial statements are prepared, accounts must be analyzed to ensure that all transactions, expiration of assets, and accruals have been recorded.
21. **Assets**, the economic resources of a business, are classified as either current (converted to cash or used up within one year of the balance sheet date) or long-term.
22. Assets initially valued at historical cost are reported at that cost less the expiration of an appropriate portion of the cost due to the use of the asset until the current date.
23. **Liabilities**, the obligations or debts of a firm, are also classified as current or long-term on the same basis as the assets.
24. The **owners' equity**, or net assets, is the difference between the assets and liabilities.
25. The owners' equity section of the balance sheet of a sole proprietorship or a partnership lists the owners' total residual interest in the firm showing no distinction between investment and earnings.
26. The owners' equity section (stockholders' equity) of a corporate balance sheet is divided into capital stock (the investment) and retained earnings (the accumulated income less dividends declared for the stockholders).
27. A corporation presents its earning per share (EPS) just below net income on its income statement.
28. **Working capital** is equal to current assets less current liabilities.
29. Ratio analysis is often used to analyze and interpret financial reports.
30. The current ratio, often used as a measure of a firm's ability to pay short-term obligations, is computed by dividing total current assets by total current liabilities.
31. Dividing stockholders' equity by total assets yields the equity ratio.
32. The return on sales is computed by dividing net income by sales.
33. Net income divided by average total assets gives the return on assets, a measure of management's utilization of the firm's assets.

## CHECK YOUR KNOWLEDGE

### True or False

If the following statements are generally true, circle the T; if they are generally false, circle the F.

T F 1. The use of mechanized and electronic data processing equipment has reduced the need for well-trained accountants.

T F 2. Accounting information is designed principally to serve two groups—owners and managers.

- T F 3. Financial accounting of a primarily historical nature is not useful in future planning.
- T F 4. To achieve various reasonable goals, business firms may keep two sets of records to satisfy different purposes (for example, one set for tax reports and another set for financial statements).
- T F 5. Assets may have greater value at the balance sheet date than the reported cost figures indicate.
- T F 6. Liabilities include only those obligations of a firm to creditors that can be stated in terms of money.
- T F 7. Owners' equity is equal to the net assets of a business; that is, assets less liabilities.
- T F 8. Revenues are recognized only when payment is received for goods and services.
- T F 9. Expenses are recognized when goods or services are used or an asset expires.
- T F 10. Owners' equity may be increased by net income or contributions by the owner and decreased by net loss or withdrawals.
- T F 11. The statement of changes in financial position is dated as of the last day of the accounting period.
- T F 12. The distribution of earnings to owners of a corporation is called a withdrawal.

### Completion

Complete the following statements by writing the appropriate word or phrase in the blanks.

- Accounting can be defined as the process of  
(a) \_\_\_\_\_, (b) \_\_\_\_\_, and  
(c) \_\_\_\_\_, and \_\_\_\_\_ the  
financial data of an organization.
- The guides or standards developed over the  
years for imparting useful financial data are  
called \_\_\_\_\_.
- The \_\_\_\_\_ works for a  
large company and assists management in  
determining if its financial and operating controls  
are effective.
- The \_\_\_\_\_ renders  
independent, expert reports on financial statements  
of business enterprises after an audit.
- The \_\_\_\_\_ portrays  
the financial position of an organization at a  
particular point in time, and the \_\_\_\_\_  
\_\_\_\_\_ portrays the results of operations  
over a period of time.
- The accounting equation may be stated as  
\_\_\_\_\_ = \_\_\_\_\_ + \_\_\_\_\_.
- \_\_\_\_\_ are the economic resources of  
the firm that can be expressed in useful monetary  
terms.
- The three principal forms of business organization  
are the \_\_\_\_\_, the \_\_\_\_\_,  
and the \_\_\_\_\_.
- The \_\_\_\_\_ of \_\_\_\_\_ is  
prepared to show the addition of net income or  
loss to the owners' capital as well as additional  
contributions or withdrawals.
- \_\_\_\_\_ are amounts earned during the  
period. They are reduced by \_\_\_\_\_ to  
determine net income.
- An owner's beginning capital was \$30,000 and  
ending capital was \$48,000. If additional contributions  
were \$9,000 and withdrawals were \$15,000, the net  
income for the period was \$\_\_\_\_\_.
- The presumption that a business firm will continue  
and will not be sold or liquidated is called the  
\_\_\_\_\_ concept.
- \_\_\_\_\_ is presented  
just below the net income figure on the income  
statement for a corporation.
- The \_\_\_\_\_ is used as a  
measure of a firm's ability to pay short-term  
liabilities.
- \_\_\_\_\_ measures the firm's ability to generate  
income while employing an average amount of assets.
- The statement of changes in financial position  
portrays the \_\_\_\_\_ of operating funds,  
the \_\_\_\_\_ of operating funds, and the  
\_\_\_\_\_ of those funds.
- \_\_\_\_\_ is the excess of  
current assets over current liabilities.







**ANSWERS TO EXERCISES**

1-1.

**Nathan Appliance Repair, Inc.**  
**Comparative Balance Sheet**

December 31

19X2

19X1

**Assets****Current Assets**

Cash	\$ 6,200	\$ 5,700
Accounts Receivable	4,800	3,800
Prepaid Rent	750	500
Repair Parts on Hand	<u>3,500</u>	<u>3,700</u>
Total Current Assets	<u>\$15,250</u>	<u>\$13,700</u>

**Long-term Assets**

Delivery Truck	\$ 8,500	\$8,500
Less: Accumulated Depreciation	<u>2,500</u>	<u>1,500</u>
Equipment	\$ 6,000	\$6,000
Less: Accumulated Depreciation	<u>2,500</u>	<u>2,000</u>
Total Assets	<u>\$24,750</u>	<u>\$24,700</u>

**Liabilities and Stockholders' Equity****Current Liabilities**

Accounts Payable	\$10,200	\$ 8,400
Notes Payable (due in 90 days)	<u>1,500</u>	<u>2,000</u>
Total Current Liabilities	<u>\$11,700</u>	<u>\$10,400</u>

**Long-term Liabilities**

Notes Payable (due March 15, 19X5)	<u>3,000</u>	<u>3,000</u>
Total Liabilities	<u>\$14,700</u>	<u>\$13,400</u>

**Stockholders' Equity**

Capital Stock, \$10 Par Value	\$ 5,000	\$5,000
Retained Earnings	<u>5,050</u>	<u>6,300</u>
Total Stockholders' Equity	<u>10,050</u>	<u>11,300</u>
Total Liabilities and Stockholders' Equity	<u>\$24,750</u>	<u>\$24,700</u>

1-2.

(a) Retained Earnings, December 31, 19X1	\$6,300	\$6,300
Less: Dividends	<u>3,000</u>	<u>3,000</u>
	\$3,300	\$3,300
Net Income for 19X2	<u>?</u>	<u>1,750</u>
Retained Earnings, December 31, 19X2	<u>\$5,050</u>	<u>\$5,050</u>

$$(b) \text{ Current Ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}} = \frac{\$13,700}{\$10,400} = 1.32$$

$$\frac{\$15,250}{\$11,700} = 1.30$$

$$\text{Equity Ratio} = \frac{\text{Stockholders' Equity}}{\text{Total Assets}} = \frac{\$11,300}{\$24,700} = 0.458$$

$$\frac{\$10,050}{\$24,750} = 0.406$$

$$(c) \text{ Return on Assets} = \frac{\text{Net Income}}{\text{Average Total Assets}} = \frac{\$1,750}{(\$24,750 + \$24,700)/2} = 0.0708$$

1-3. **Nathan Appliance Repair, Inc.**  
**Income Statement**  
**For the Year Ended December 31, 19X2**

Revenues	
Repair Service Fees	\$75,800
Operating Expenses	
Salaries Expense	\$50,000
Repair Parts Used	12,300
Depreciation Expense—	
Equipment	500
Depreciation Expense—	
Delivery Truck	1,000
Interest Expense	750
Rent Expense	3,000
Supplies Expense	1,500
Utilities Expense	1,800
Delivery Expense	2,700
Income Tax Expense	<u>500</u>
Total Operating Expenses	<u>74,050</u>
Net Income	<u>\$ 1,750</u>
Earnings per Share	\$3.50

$$\text{Earnings per Share} = \frac{\$1,750}{\$5,000/\$10} = \$3.50$$

$$\text{Return on Sales} = \frac{\$1,750}{\$75,800} = 0.0231$$

# 2

## ANALYZING AND RECORDING CHANGES IN FINANCIAL STATEMENTS

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### CHAPTER REVIEW

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1. The simple form of the balance sheet equation,  $\text{Assets} = \text{Liabilities} + \text{Owners' Equity}$ , must be adjusted for easy analysis of the many transactions that may affect owners' equity daily.
2. Owners' equity may be increased by revenues and capital contributions and decreased by expenses and capital withdrawals.
3. In a corporation's balance sheet, **stockholders' equity** is divided into capital stock and retained earnings.
4. **Retained earnings** are increased by revenues and decreased by expenses and dividends (the distributions to the stockholders).
5. Transactions result from exchanges of money, goods, and services with outsiders; adjustments originate within the business.
6. Each transaction can be analyzed in terms of the changes in the dollar amounts of assets, liabilities, and components of stockholders' equity resulting from the transaction.
7. Only revenues and expenses determine the amount of net income.
8. Revenue is recognized at the time it is earned, although cash may not be exchanged at that time.
9. Adjustments must be made before statements are prepared at the end of a specified period to recognize expenses that result from the expiration of assets or the passage of time.
10. The collection of accounts receivable does not result in the recognition of revenue.
11. **Depreciation** is recorded to reflect the expense, or expiration, of a portion of the cost of a long-term asset. The historical cost of the asset remains in the asset account and the expired portion is recorded in the Accumulated Depreciation account.
12. Expenses are recorded by adjustments if items such as utilities or other services have been used and bills have not been received. The amounts must be estimated.
13. The **account**, the basic component of the accounting system, is an individual record of the increases and decreases in a specific asset, liability, or element of stockholders' equity (capital stock, revenues, expenses, and dividends).
14. An account may appear in the following forms: (a) the two-column form with places for the account title and number, dates, descriptive notations, increases and decreases, and cross references to other accounting records; (b) the skeleton T account used for

- illustrations and calculations; or (c) the "running balance," or "three-column" ledger form, which has a column for the account balance.
15. The balance of a two-column account or a T account may be determined by deducting the decreases from the total of the increases plus the beginning balance.
  16. **Debits** are the entries on the left side of any account, and **credits** are the entries on the right side of any account.
  17. Debits are used to record increases in assets and expenses; asset and expense accounts normally have debit balances.
  18. Credits are used to record increases in liabilities, components of stockholders' equity, and revenues; these accounts normally have credit balances.
  19. Debits are used to record decreases in liabilities, components of stockholders' equity, and revenues; credits are used to record decreases in assets and expenses.
  20. Each transaction is recorded with equal dollar amounts of total debits and total credits. One or more debits and credits may be used.
  21. A **contra account** such as Accumulated Depreciation may be used to record reductions or offsets against a related account.
  22. Net income for the accounting period is determined by deducting all expenses from all revenues. Net income must be determined before retained earnings can be determined.
  23. Retained earnings can be computed by adding net income for the period to the beginning balance of retained earnings and deducting dividends declared during the period.
  24. If the business form is a proprietorship, the owner's equity will have only a capital account, which includes both earnings and contributions.
  25. Withdrawals by the owner of a proprietorship are recorded in an owner's drawing account, which is a contra account to the owner's capital account.
  26. Proprietorships have no salaries to the owners or income tax expense on the financial statements.
  27. The **general ledger** contains all the accounts for the business entity. It is usually contained in a binder that allows for the addition or removal of accounts as needed.
  28. A **trial balance**, a listing of all the general ledger accounts and their respective balances, is used to determine that debits and credits are equal and to show a concise record of all account balances.
  29. A trial balance that is in balance may still contain the following errors: (a) an unrecorded transaction, (b) a transaction entered more than once, (c) one or more amounts entered in the wrong account, and (d) an error that exactly offsets another error.
  30. If a trial balance does not balance, determine the amount of the imbalance. If a debit or credit is interchanged, the amount of the imbalance will be twice the amount of the entry. The discrepancy resulting from a transposition error is always divisible by 9. If an item is omitted, the amount of the discrepancy is the amount omitted. Combinations of errors usually must be found by tracing the entries back to the records until the trial balance can be balanced.

## CHECK YOUR KNOWLEDGE

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### True or False

If the following statements are generally true, circle the T; if they are generally false, circle the F.

- |  |  |
|--|--|
| <p>T F 1. Most of the transactions affecting the owners' equity account would be revenue and expense transactions if the abbreviated basic accounting equation were utilized in the accounting system.</p> <p>T F 2. If the expanded accounting equation is used, it is necessary to record all transactions before the equation will balance.</p> | <p>T F 3. The three-column account form provides places for increases and decreases in the account as well as the balance.</p> <p>T F 4. "The books are in balance" implies that all the accounting records have been properly maintained.</p> <p>T F 5. The stockholders' equity section of the balance sheet of a corporation will</p> |
|--|--|



contain both Capital Stock and Retained Earnings accounts.

- T F 6. The general ledger may be a loose-leaf binder of all the accounts necessary to record the transactions of a business entity.
- T F 7. If the trial balance indicates equal debits and credits for the accounts in the general ledger, you may be sure that you have properly recorded the transactions for the period.
- T F 8. The balance of the contra account, Accumulated Depreciation, reflects the total amount of depreciation taken to date on the related assets.
- T F 9. The drawing account, which accumulates the amounts the owner has withdrawn for personal use, is a contra account to the owner's capital account.
- T F 10. Failure to record part of a particular transaction can always be detected by taking a trial balance.
- T F 11. It is possible to determine if all debits and credits have been entered in the proper accounts by taking a trial balance.
- T F 12. The trial balance will be out of balance by an amount divisible by 9 if only a transposition error was made when the transactions were entered into the accounts.
- T F 13. The trial balance should include the data needed to prepare the income statement on that date.

## Completion

Complete the following statements by writing the appropriate word or phrase in the blanks.

- The Retained Earnings account is increased by \_\_\_\_\_ and reduced by \_\_\_\_\_.
- \_\_\_\_\_ result from exchanges of money, goods, and services with outsiders, while \_\_\_\_\_ originate within the business.
- An \_\_\_\_\_ can be defined as a record of the increases and decreases in a specific business category.
- The balance of any account is the beginning balance plus \_\_\_\_\_ less \_\_\_\_\_.
- The \_\_\_\_\_ entry is always recorded on the left side of the account.
- Asset accounts are increased by \_\_\_\_\_; liability accounts are increased by \_\_\_\_\_; owners' equity accounts are increased by \_\_\_\_\_; revenue accounts are increased by \_\_\_\_\_; expense accounts are increased by \_\_\_\_\_.
- A \_\_\_\_\_ account represents an offset or a reduction of the balance in a related account.
- The \_\_\_\_\_ is a list of the account titles in the ledger with their respective debit and credit balances.
- A \_\_\_\_\_ of a number is simply a reversal of the order of the digits. The resulting discrepancy is always divisible by \_\_\_\_\_.
- If an amount is entered on the wrong side of an account—for example, as a debit instead of a credit—the trial balance will be out of balance by \_\_\_\_\_ the amount.

## EXERCISES

- 2-1. Modern Service, Inc., was incorporated by Samuel Nilsen to furnish carpet-cleaning services. Following is a series of symbols for elements of the balance sheet equation and a series of account titles, each with a code number.

A = Assets    L = Liabilities    CS = Capital Stock    RE = Retained Earnings

- Cash
- Accounts Receivable
- Prepaid Rent
- Supplies on Hand
- Equipment
- Accumulated Depreciation
- Accounts Payable
- Income Tax Payable

- (a) In Column (A): The balance sheet equation elements affected.
- (b) In Column (B): Whether each element in (A) is increased (+) or decreased (-).
- (c) In Column (C): The code number of any accounts to be debited.
- (d) In Column (D): The code number of any accounts to be credited.

The first transaction is completed as an example.

2-2. The following transactions occurred in January, the first month of operations of the Middaugh Service Agency. Instructions: (a) Enter transactions (1) through (20) in the accounts provided, a three-column account

for cash and T accounts for the remainder, keying the account entries to the numbers of the transactions. (b) After all transactions have been recorded, balance the accounts where more than one entry has been made.

