VOLUME

V

# ENCYCLOPEDIA of ACCOUNTING SYSTEMS

WILLIAMS
and
DORIS

# ENCYCLOPEDIA of ACCOUNTING SYSTEMS



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### Preface

This Encyclopedia of Accounting Systems, comprising five volumes, describes and illustrates accounting systems for diversified industries, businesses, and professions. Each system has been presented by a specialist in the particular field.

The selection of the industries was made with a view to meeting the greatest need of practicing accountants. The number of firms in the industry, the existence of peculiar accounting problems, and the opportunity to present varied types of cost systems and to explain unusual procedures for the reduction of clerical expenses were factors in the selection. Industries that are dominated by a few giant corporations or regulated by a public body which prescribes an accounting system were not selected. Nor were industries chosen in which there is a widespread use of a uniform system of accounts sponsored by, and available through, a trade association in the field.

To assure equal coverage and comprehensiveness in all sections, each author was asked to follow, as far as possible, the uniform outline prepared by the Editors. Thus, with changes to fit special situations, each section treats the following subjects in the order indicated:

- 1. Characteristics of the industry that affect the accounting system.
- 2. Functional organization of the business.
- 3. Principles and objectives of the accounting system.
- 4. Classification of accounts and books of account.
- Peculiarities of procedures for: sales-receivables cycle; purchasespayables cycle; cash receipts and disbursements.
- 6. Cost system.
- 7. Time and payroll system.
- 8. Plant and equipment records—depreciation.
- 9. Reports to management.
- 10. Special time-saving devices.
- 11. Modification of the system for small businesses in the field.

In addition to achieving comprehensive coverage, the established arrangement permits the accountant quickly to pick up ideas from numerous industries that might be used in making improvements in existing systems, in solving troublesome problems, and in answering clients' questions.

Attention is given in each industry to the practices peculiar to the particular business. The problem areas, accounting-wise, are fully covered.

The text assumes that accountant-readers know the fundamentals of accounting methods, the manual and machine methods commonly used in an accounting office, and the ordinary procedures for handling cash, accounts receivable, accounts payable, payroll, and the like, and for maintaining internal check and control. If there is nothing worthy of mention under a particular topic in the uniform outline, the author has either omitted the topic or indicated that conventional methods and procedures are used.

Explanations of general accounting problems, which arise in all businesses and which are fully covered in accounting texts, have been deliberately avoided. Similarly, discussions of techniques for budgeting, developing standard costs and standard burden rates, and the like, which are explained at length in specialized accounting texts, have been omitted. An exception has been made in the case of the P/V technique of analysis for profit-planning. Because of its comparative newness as a management tool, the explanation of this technique, given in the accounting system for the carbonated beverages industry, is welcomed by the Editors.

The Editors considered it advisable not to prescribe any accounting terminology but to permit each author to use the terminology common to the industry or to follow his accustomed practice.

More than 500 diagrams and forms, specially designed for the particular industries, have been reproduced with great care to assure complete legibility. Standard forms and simple forms that may be purchased from form stationers have not been reproduced. Filled-in forms have been presented whenever the author felt that such specimens were needed to clarify the explanation.

The Editors are grateful to the trade associations, groups, and informed individuals whose recommendations resulted in bringing together the authors who have made this *Encyclopedia of Accounting Systems* an authoritative master reference of modern accounting practice. The Editors are deeply grateful to the authors for their whole-hearted co-operation and their generosity in making their knowledge and talents available to the industries covered and to the accounting profession.

On behalf of the authors, grateful appreciation is expressed to the numerous associations and business organizations that co-operated with the authors by making material available to them. Appropriate credit lines have been included in the particular sections, except where anonymity was desired.

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# **Printing**

bу

### FRANK R. SOMERS

Frank R. Somers & Company, Certified Public Accountants, Dayton, Ohio

### Industry characteristics that affect the accounting system

Nature of the business. The printing industry consists of a large number of establishments employing skilled craftsmen. The industry is highly unionized, the average firm having contracts with five or six craft unions.

Printers can be grouped by the process used in manufacturing and by product classification. The processes are: (1) letterpress, (2) lithography (offset), (3) gravure. It is not unusual for one firm to use two or more of the above processes. The average printer uses both the letterpress and lithographic processes. During the past 10 years the number of firms using the lithographic process has increased substantially.

The usual classifications by product manufactured are:

- 1. Commercial printing
- 2. Advertising printing
- 3. Periodical and catalog printing
- 4. Book printing
- 5. Business forms
- 6. Label printing
- 7. Greeting cards

Commercial printing includes advertising literature, periodicals, catalogs, labels, and business forms. Many firms specialize in one or more of the above products.

The printing industry is primarily a service industry and the majority of printers manufacture orders to customers' specifications. However, many standard items, such as accounting forms and accounting systems, business forms, standard labels, and advertising literature, are manufactured for inventory. Many of these items are subsequently imprinted for individual customers.

**Principal accounting problems.** Of the numerous accounting problems in the industry, the following are most common:

- 1. Determination and control of inventories, raw materials, work-inprocess, semi-finished goods, and finished goods.
- 2. Analysis of sales and cost of sales by product, process, and salesmen, or other natural divisions of the business.
  - 3. Control of manufacturing expenses.
- 4. Allocation and distribution of selling and administrative expenses by product classification, process, or other natural divisions of the business.
- 5. Determination of costs and selling prices of orders to be manufactured—estimating.
  - Determination of cost of orders manufactured.
- 7. Preparation of budgets, especially operating budgets and budgeted hour rates for costing and estimating.
- 8. Determination of production standards for estimating and control of manufacturing costs.
  - 9. Control of production and scheduling of orders.

Since the majority of the accounting problems are concerned directly or indirectly with the cost system, emphasis will be placed on this phase of accounting.

### Functional organization

Division into departments or activities. The three principal divisions of the business are manufacturing, selling, and administration. The manufacturing operations are subdivided as follows:

- 1. Letterpress
  - (a) Copy preparation
  - (b) Composition-hand and machine
  - (c) Pressroom
  - (d) Bindery
  - (e) Receiving and shipping
- 2. Lithography
  - (a) Copy preparation
  - (b) Camera
  - (c) Plate making
  - (d) Pressroom
  - (e) Bindery or finishing
  - (f) Receiving and shipping

In medium-sized and large establishments, a foreman is in charge of each of the departments performing the above operations, and a vice-president or superintendent is in charge of all manufacturing operations. For cost purposes, the operating departments are further subdivided into cost centers (see page 1561).

Purchasing, personnel, and production control departments are considered a part of the manufacturing division. A typical organization chart is shown in Figure 1.

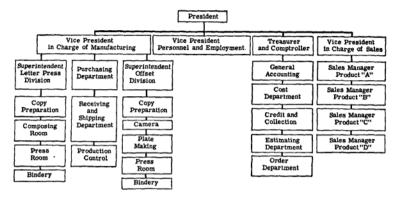


Fig. 1. Organization Chart.

Duties and responsibilities of the controller. The controller should be responsible for the order and estimating departments as well as for general accounting, cost, and credit and collections.

Since the majority of orders are manufactured to customers' specifications, the proper control over the order from the time it is received until it is manufactured, shipped, and billed is an important function of the accounting department. Maintaining a backlog of orders and an even flow of work through the plant is an important function of management. An insufficient backlog and improper scheduling of orders usually results in idle equipment and excessive overtime, thus creating excessive costs.

The cost data required by the estimating department are budgeted hour cost rates and production standards for all equipment in machine departments and for employees in the hand departments. Since the estimating department is largely responsible for the determination of selling prices, the importance of these cost data is obvious.

### Principles of the system

Principles to be applied in general accounting. In the general accounting, as distinguished from the cost accounting, the same principles are applied as are followed in all manufacturing industries. All accrued and prepaid expenses must be properly recorded on the books each month. Inventories of raw material, work-in-process, and finished and semi-

finished goods must be accurately obtained each month. This task is usually accomplished by maintaining perpetual inventory records of raw material, finished goods, and semi-finished goods. The work-in-process inventory is a product of the cost system and will be discussed later. Supplies inventories, where practical, should be maintained by the use of perpetual inventory records.

Principles of the cost system. A job order cost system, comprising a mixture of actual costs and standard costs, is generally used in the industry. The cost of orders manufactured is obtained by using actual material costs, actual hours required in production, and budgeted or standard hour cost rates. In estimating, the estimator uses estimated material cost, computes time allowances for various operations based upon historical averages as compiled by the cost department, and applies the same budgeted hour cost rates that are used in costing. After the order is completed, the estimated cost is checked against the cost of the order as determined by the cost department.

In determining the actual factory hour cost rate for each cost center for any given period, fixed charges and all operating expenses, including direct labor, are distributed to each cost center and the total cost is divided by the chargeable hours for the cost center. The chargeable and non-chargeable operations are clearly defined for each cost center. All operations that properly are chargeable to the order at the time of manufacturing are considered chargeable operations; all other operations are considered non-chargeable operations.

### Classification of accounts and books of account

Uniform classification of accounts. For many years the printing industry has recommended a uniform classification and arrangement of accounts, which should be followed whenever possible. "Ratios for Printing Management," a booklet published by the Printing Industry of America for many years, contains a wealth of financial and cost data, predicated upon the uniform classification of accounts.

The chart of accounts must be adjusted to the needs of each company. Obviously, a large company operating numerous sales offices and maintaining many separate departments will require a substantially different chart of accounts from that of a small company with relatively few employees. The chart of accounts presented here may be used as a guide in preparing a chart of accounts. The arrangement and grouping of accounts should be the same regardless of the size of the establishment.

### Balance sheet accounts.

Current Assets:         10 Cash         Cash Received         Check Register         Check Register         Check Register         General Journal         Check Register         General Journal         Cash Received         Check Register         General Journal         Cash Received         Cash Received         Do			Debits from	Credits from
Payroll Account				
21	12	Payroll Account	Check Register	
Sales Journal or General Journal or Cash Received or Cash	20	Receivables		
Allowance for Doubtful Accounts.   General Journal Check Register   General Journal of Cash Received			Sales Journal or	
Raw Material   Signature   S			General Journal	General Journal or
Paper		Inventories:		
1	30	Raw Material		
41         Material         General Journal         Do           42         Labor and Overhead         Do         Do           50         Finished Goods         Finished Goods           51         Product A         Do         Do           52         Product B         Do         Do           60         Investments         Forepaid Expenses         Cash Receipts           70         Prepaid Expenses         Do         General Journal           72         Prepaid Interest         Cash Received         Do           73         Supplies Inventory         Voucher Register         Do           74         Prepaid Rent         Do         Do           Fixed Assets:         Stupplies Inventory         Voucher Register         Do           81         Land         Do         Do           82         Buildings         Do         Do           83         Depreciation Allowance         General Journal         Do           84         Machinery and Equipment         Voucher Register         Do           85         Depreciation Allowance         General Journal         Do           86         Trucks and Autos         Voucher Register         Do	32 33 34	Ink Film Plates	Do Do Do	Do Do Do
42         Labor and Overhead         Do         Do           50         Finished Goods         51         Product A         Do         Do           51         Product B         Do         Do         Do           60         Investments         Cash Receipts         Cash Receipts           61         Marketable Securities         Voucher Register         Cash Receipts           70         Prepaid Expenses         Do         General Journal           72         Prepaid Insurance         Do         General Journal           72         Prepaid Interest         Cash Received         Do           73         Supplies Inventory         Voucher Register         Do           74         Prepaid Rent         Do         Do           Fixed Assets:         Stand         Do         Do           82         Buildings         Do         Do           83         Depreciation Allowance         General Journal         Do           84         Machinery and Equipment         Voucher Register         Do           85         Depreciation Allowance         General Journal         Do           86         Trucks and Autos         Voucher Register         Do	40	Work-in-Process		
51         Product A         Do         Do           52         Product B         Do         Do           60         Investments         61         Marketable Securities         Voucher Register         Cash Receipts           70         Prepaid Expenses         71         Prepaid Insurance         Do         General Journal           72         Prepaid Interest         Cash Received         Do           73         Supplies Inventory         Voucher Register         Do           74         Prepaid Rent         Do         Do           Fixed Assets:         81         Land         Do         Do           82         Buildings         Do         Do           83         Depreciation Allowance         General Journal         Do           84         Machinery and Equipment         Voucher Register         Do           85         Depreciation Allowance         General Journal         Do           86         Trucks and Autos         Voucher Register         Do           89         Depreciation Allowance         General Journal         Do           89         Depreciation Allowance         General Journal         Do				
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73         Supplies Inventory         Voucher Register         Do           74         Prepaid Rent         Do         Do           Fixed Assets:         Buildings         Do         Do           81         Land         Do         Do           82         Buildings         Do         Do           83         Depreciation Allowance         General Journal         Do           84         Machinery and Equipment         Voucher Register         Do           85         Depreciation Allowance         General Journal         Do           86         Trucks and Autos         Voucher Register         Do           87         Depreciation Allowance         General Journal         Do           88         Office Furniture and Fixtures         Voucher Register         Do           89         Depreciation Allowance         General Journal         Do           90         Foundry Type         Voucher Register         Do           91         Depreciation Allowance         General Journal         Do           92         Metal         Voucher Register         Do	71	Prepaid Insurance		General Journal
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90 Foundry Type				
91         Depreciation Allowance         General Journal         Do           92         Metal         Voucher Register         Do	~ ~			
92 Metal Voucher Register Do				~ ~
Voucher Legister 20				
		Depreciation Allowance	_	

Debits from Credits from

		Deous from	Create from		
Curre	Current Liabilities:				
100	Payables				
101	Notes—Banks	Check Register	Cash Receipts		
102	Notes—Equipment—Due Within	ONCOR TROBUST	Casa ziccorpa		
	One Year	Do	Voucher Register or General Journal		
103	Notes-Others	Do	Do		
104	Accounts-Vendors	Do	Voucher Register		
105	Accounts—Officers	Do	Cash Receipts or General Journal		
110	Accruals and Withholding				
111	Federal Income Taxes	$\mathbf{Do}$	General Journal		
112	Withholding Taxes	Do	Do		
113	Unemployment Taxes	Do	Do		
114	Federal Insurance Contributions Act		Do		
	Taxes	Do	Cash Receipts		
115	Other Taxes	Do	Voucher Register or		
	***		General Journal		
116	Wages	Do D	General Journal		
117	Commissions	Do	Do		
120	Deferred				
121	Notes Payable—Equipment—Due				
	After One Year	Do	Voucher Register or General Journal		
122	Mortgage Payable	Do	Do		
123	Bonds	Do	Cash Receipts or General Journal		
130	Reserves				
131	For Purchase of Real Estate	General Journal	General Journal		
132	For Purchase of Equipment	Do	Do		
133	For Sinking Fund	$D_0$	Do		
134	For Depreciation of Assets Fully				
	Depreciated	Do ·	Do		
	Worth (if a corporation):				
140	Capital Stock				
141	Preferred Authorized	Do	Do		
142	Preferred Unissued	Do	Do		
143	Common Authorized	Do	Do		
144	Common Unissued	Do	Do		
150	Surplus				
151	Earned	Do	Do		
152	Capital	D <sub>0</sub>	Do		
153	Profit and Loss	Do	Do		
Net Worth (if a partnership):					
141	Capital Account—Partner "A"	Do	Do		
142	Drawing Account—Partner "A"	D <sub>0</sub>	D <sub>o</sub>		
143	Capital Account-Partner "B"	. Do	Do		
144	Drawing Account—Partner "B"	Do	Do		
145	Profit and Loss	Do	Do		

# Operating accounts (when cost system is interlocked with general books).

		Debits from	Credits from
200	Sales Accounts		
201	Sales—Product A		Sales Journal or General Journal
202	Sales Returns and Allowances-		General Journal
	Product A	Sales Journal or	
		General Journal	
203	Sales—Product B		Do
204	Sales Returns and Allowances—		
205	Product B	Do	Do
206	Sales Returns and Allowances—		Do
200	Product C	Do	
300	Cost of Goods Sold		
301 302	Product A	General Journal	
303	Product C	Do Do	
000		100	
	Variance Accounts:		
304	Cost of Finished Goods	$D_0$	General Journal
305	Inventory Adjustment	$D_0$	Do
306	Manufacturing Expenses	$\mathbf{D_0}$	$\mathbf{D_0}$
	Manufacturing Expenses:		
400	Control Account		
	Detail		
401	Wages-Direct	$\mathbf{D_0}$	
402	Wages—Indirect Operating	$\mathbf{D_0}$	
403 404	Wages—Supervision	Do Do	
405	Wages—Vacation and Holiday	Do Do	
406	Wages—Premium for Overtime	Do	
407	Wages—Idle Time		
408	Light	Voucher Register	
409	Power	Do	
410	Spoilage	General Journal	
411	Supplies	General Journal or	
412	Repairs	Voucher Register Voucher Register or	
	Tropusts	General Journal	
413	Payroll Taxes	General Journal	
414	Gas and Water	Voucher Register	
415	Building Expense	General Journal	
416	Insurance	Do	
417 418	Property Tax	Do Do	
	Depreciation	Do	
500	Applied Accounts		
501	Manufacturing Expenses Applied to		
502	Product		Do
	-Contra Account	Do	Do
		20	100

### PRINTING

Debits from

Credits from

		250000 11011	Creates from
	Administration Expenses:		
600	Control Account		
700	Administrative Expense-Standard	General Journal	
800			
	Contra		General Journal
	Detail		
613	Payroll Taxes	Do	
615	Building Expense	Do	
616	Insurance	Do	
617	Taxes—General	Do	
618	Depreciation	$D_0$	
631	Salaries—Executive	D <sub>0</sub>	
632 634	Salaries—Office	Do Doise	
635	Dues and Subscriptions	Voucher Register Do	
636	General Office Expense Telephone and Telegraph Expense.	Do	
637	Miscellaneous Expense	Do Do	
		20	
900	Selling Expenses: Control Account		
1000	Selling Expense—Standard	General Journal	
1100	Selling Expense—Standard—	Concrat obdinat	
	Contra		$D_0$
	Detail		
913	Payroll Taxes	Do	
915	Building Expense	Do	
916	Insurance	Do	
917	Taxes	Do	
918	Depreciation	Do	
931	Salaries—Executives	Do	
932 933	Salaries—Office	Do	
900	Salaries and Commissions—	D-	
934	Salesmen Dues and Subscriptions	Do Vouches Besistes	
935	General Office Expense	Voucher Register Do	
936	Telephone and Telegraph Expense.	Do	
937	Miscellaneous Expense	Do	
938	Advertising	Do	
939	Sales Promotion	Do	
1200	Other Income		
1201	Discounts Earned		Check Register
1202	Interest Earned		Cash Receipts
1203	Dividends Received		Do
1204	Miscellaneous Income		$\mathbf{D_0}$
1205	Profit on Sale of Capital Assets		General Journal
1300	Other Deductions		
1301	Discounts Allowed	Check Register	
1302 1303	Interest Paid	Voucher Register	
1303	Loss on Sale of Capital Assets Allowance for Doubtful Accounts	General Journal	
1004	Anowance for Doubtini Accounts	Do	

Primary expense accounts. A number of primary expense accounts, required for the distribution of indirect cost centers in the factory ledger, do not appear in the operating statement. They are:

81 Building Expense—Prorated
82 Machine Shop Expense—Allocated
83 General Factory Expense—Prorated
84 General Litho Press—Prorated
85 General Letterpress—Prorated
91 Building Expense—Contra
92 Machine Shop Expense—Contra
93 General Factory Expense—Contra
94 General Litho Press—Contra

95 General Letterpress-Contra

Departments and cost centers—the manufacturing expense ledger. The manufacturing expense ledger is the heart of the cost system. The primary manufacturing expenses set forth in the chart of accounts are further analyzed by departments, which in turn are analyzed by cost centers. Cost centers are of two kinds, indirect centers and direct operating centers. The indirect centers accumulate manufacturing expenses which are subsequently prorated to direct operating centers. The following chart shows customary indirect cost centers and the departments and direct cost centers in a combination letterpress and lithographic plant.

### COST CENTERS

	COST CENTERS			
	Indirect Centers:	28	Proofing	
00		30	Composition Department	
01	Building Expense	31	Hand Composition	
02	Machine Shop	32	Machine Composition	
03	General Factory	33	Monotype Keyboard	
04	General Lithographic Press	34	Monotype Caster	
05	General Letterpress	40	Litho Press Department	
	Department and Direct Cost Centers:	41	Size 42" x 58"—four-color	
10	Copy Preparation	42	35" x 45"-two-color	
11	Engraving and Hand Lettering	43	50" x 69"—one-color	
12	Typing and Paste-up, and so on	44	35" x 45"-one-color	
13	Art Work	45	21" x 28"one-color	
15		46	17" x 22"one-color	
	Camera Department	50	Letterpress Department	
16	Color Process		Size 32" x 45"—two-color	
17	Halftone	51 52		
18	Line	53	27" x 41"—two-color 38" x 50"—one-color	
20	Plate-Making Department	54	22" x 28"—one-color	
21	Stripping—Color	55	17" x 22"—one-color	
22	Stripping—Black and White	56	13" x 20"—one-color	
23	Opaquing—Color	-	// A	
$^{24}$	Opaquing—Black and White	60	Bindery Department	
25	Dot Etching	61	Folders	
26	Photo-composing	62	Stitchers	
27	Vacuum Frame	63	Cutters	