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ABSTRACT

This three-part curriculum for entrepreneurship education is primarily for postsecondary level, including four-year colleges and adult education, but it can be adapted for special groups or vocational teacher education. The emphasis of the eight instructional units in Part III is operating a business. Unit B focuses on good financial management techniques. It is designed to provide first-hand information in implementing basic financial management principles and strategies. Topics include financial statements, analyzing these statements, determining break-even points, and computing various operating ratios. Material is organized into three levels of learning which progress from simple to complex concepts: Exposure, Exploration, and Preparation/Adaptation. Each level contains preassessment: teaching/learning objectives: substantive information (questions in margins guide the students' reading); activities, including a postassessment; and a self-evaluation. Definitions of important terms are found at the beginning of the unit; a bibliography and listing of sources for further information are appended. The four-page instructor's guide contains the teaching/learning objectives, teaching/learning delivery suggestions, and pre/postassessment suggested responses. (YLB)

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PACE

A PROGRAM FOR ACQUIRING
COMPETENCE IN ENTREPRENEURSHIP

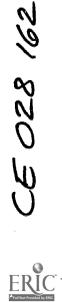
PART III: Being an Entrepreneur UNIT B: Financial Management

The National Center for Research in Vocational Education The Ohio State University Columbus, Ohio 43210

1980

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PART III: Being an Entrepreneur

UNIT B: FINANCIAL MANAGEMENT

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FOREWORD

Traditionally vocational education has been geared primarily to preparing students for employment—to preparing employees. Yet there is another career path available; students can learn how to set up and manage their own businesses. They can become entrepreneurs.

Vocational education, by its very nature, is well suited to developing entrepreneurs. It is important that entrepreneurship education be developed and incorporated as a distinct but integral part of all vocational education program areas. A Program for Acquiring Competence in Entrepreneurship (PACE) represents a way to initiate further action in this direction.

The strength behind these instructional units is the interest and involvement of vocational educators and successful entrepreneurs in the state of Ohio and across the nation. Special recognition is extended to the project staff: Lorraine T. Furtado, Project Director and Lee Kopp, Program Associate. Appreciation is also expressed to the many who reviewed and revised the drafts of the units: Ferman Moody, Hannah Eisner, and Sandra Gurvis. We owe a special thanks to those consultants who contributed to the content of this publication: Carol Lee Bodeen, Louis G. Gross, Douglass Guikema, Peter G. Haines, Philip S. Manthey, Charles S. McDowell, Mary E. McKnight, Steven R. Miller, Barbara S. Riley, Barbara A. Rupp, Ruth Ann Snyder, Robert L. Suttle, Florence M. Wellman and Roy H. Young.

Robert E. Taylor
Executive Director
The National Center for
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HOW TO USE PACE

A Program for Acquiring Competence in Entrepreneurship (PACE) is a curriculum responsive to the need for instruction in entrepreneurship. It is primarily for postsecondary level, including four year colleges and adult education, but it can also be adapted for special groups. PACE is divided into three parts (1) Getting Ready to Become an Entrepreneur, (2) Becoming an Entrepreneur (establishing a business), and (3) Being an Entrepreneur (operating a business).

Each of the three parts has a set of instructional units which relate to that topic. Within these units, the material is organized into three levels of learning: Exposure, Exploration, and Preparation/Adaptation. These levels of learning progress from simple to complex concepts.

The levels of learning will enable you to use the PACE materials to suit your individual needs. You may find it best to work with the exposure level of one unit and the exploration level of another. Or, you may choose to pursue one level throughout the entire series. You might also want to work through two or more levels in one unit before going on to the next unit.

Before beginning a unit, discuss with your instructor what level or levels of learning in that unit are most appropriate to your goals and abilities. Read the unit overview and look through the pre/post-assessments for the three levels to help you in your choice. Also check the list of definitions you might need to look up or research for that level.

When we are r to start, turn to the level you have chosen, take the pressessment and identify those items which you feel need special attention in the unit. Also look at the learning objectives; they will tell you what you should be able to do by the time you finish that level of learning.

As you read, you will notice questions in the margins alongside the substantive content portion of each level. Use these question to guide our reading.

Ar the end of each level of learning are activities which help you become involved with the content presented in the unit. You and your instructor can decide on how many activities you should do; you may want to do several or you many need to do all.



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Then, evaluate yourself. Is there any material that you need to review before you take the postassessment? The difference in your answers on the pre/postassessments should show you how much you have grown in your knowledge of entrepreneurship.

When you and your instructor feel that you have successfully completed that level, you are ready to begin another level of learning, either in the same unit or in another.





OVERVIEW OF THE UNIT

Once the entrepreneur has established the business, management decisions must be aimed at keeping it operational and fostering growth. In order to accomplish both these goals, the entrepreneur must use good financial management techniques. Good management techniques will allow you, the entrepreneur, to maintain financial control of the enterprise and improve profits.

This unit is designed to provide first-hand experience in implementing basic financial management principles and strategies. As you complete this unit, you will become familiar with financial statements, and how to analyze these statements. You will also learn how to determine break-even points and compute various operating ratios.



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DEFINITIONS TO KNOW BEFORE YOU BEGIN

As you read through a level, you might find some unfamiliar words. Listed below are several business terms used in each level. Knowin these before you begin might help you to better understand that level.

EXPOSURE

cash flow liabilities gross profit
balance sheet accounts receivable net profit
profit and loss statement accounts payable profit margin
break-even point net worth current ratio
assets cost of goods sold trade creditors

EXPLORATION

balance sheet equity gross sales profit and loss statement net worth net profit assets accounts receivable net sales liabilities convertability depreciation current assets average - collection current ratio ratio fixed assets inventory ratio acid - test ratio cost of goods sold gross profit or margin break-even point liquid assets





PREPARATION/ADAPTATION

assets gross margin tangible net worth

liabilities current ratio owner's equity statement

belance sheet acid test ratio break-even point

profit and loss statement inventory ratio equity

cost of goods sold working capital variable costs



TALE

PATH OF STUDY

PART I-- GETTING READY TO BECOME AN ENTREPRENEUR

Unit I A

Unit I B

Unit I C

PART II-- BECOMING AN ENTREPRENEUR

Unit II A

Unit II B

Unit II 0

Unit II D

Unit II E

Unit II F

Unit II G

PART III -- BEING AN ENTREPRENEUR

Unit III A

YOU ARE HERE

Unit III B -- Financial Management

Unit III C

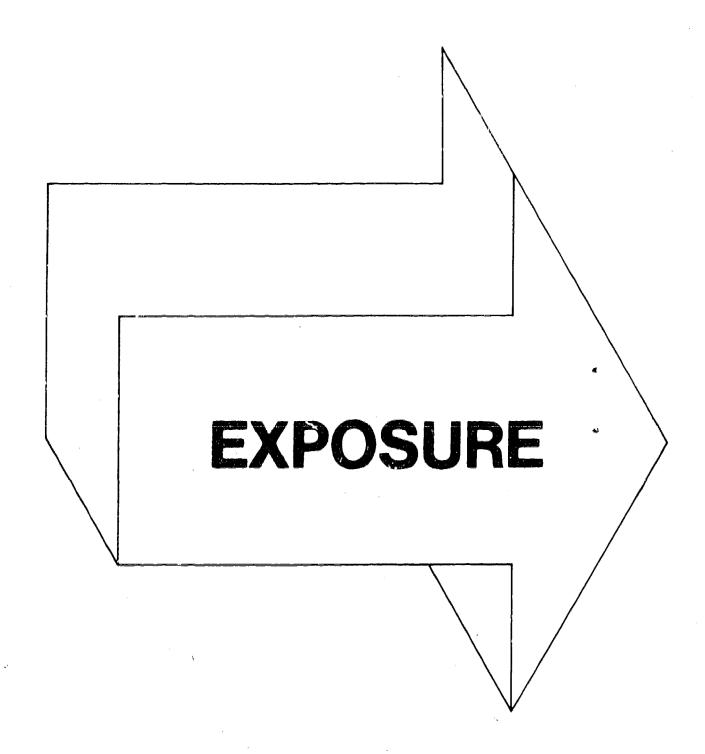
Unit III D

Unit III E

Unit III F

Unit III G

Unit III H



PREASSESSMENT

Here are some questions that test for knowledge of the contents of this level. If you are very familiar with the information needed to answer them, perhaps you should go to another level or unit — check with your instructor. Otherwise, jot down your answers. After you've read through this level, take the postassessment at the end of the "Exposure Activities" section and measure what you've learned.

- 1. What is a balance sheet?
- 2. What information does a profit and loss statement contain?
- Describe how ratio analysis information might be used by an entrepreneur.
- 4. What information does knowing the break-even point provide to the entrepreneur?
- 5. What is meant by cost of goods sold and net profit



TEACHING/LEARNING OBJECTIVES

Upon completion of this level of instruction, you should be able to:

- 1. Describe a balance sheet.
- List the components of a profit and loss statement.
- 3. Describe the importance of ratio analyses.
- 4. Describe what is meant by break-even point.



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SUBSTANTIVE INFORMATION

DEVELOPING SKILLS IN FINANCIAL MANAGEMENT

WHY DEVELOP SKILLS
IN FINANCIAL
MANAGEMENT?

It is important to the future growth of your business that you develop some skills in the area of financial management. Good financial management can be the key to the survival of your business. Your income from sales may be over and beyond that estimated for your business, but the business can fail if income and business expenses are poorly managed. On the other hand, your firm may be making only a slight profit, but with good financial management the business can survive.

Even if you have an accountant prepare your financial statements, you should be able to understand and analyze these statements. This will help keep you in control of your business.

There are two basic financial statements with which you should be totally familiar. These are the balance sheet and the profit and loss statement. You should also be aware of the use of break-even analyses and business ratios.

THE BALANCE SHEET

WHAT IS A BALANCE SHEET?

A balance sheet is a statement that tells what you own and what you owe at any particular time. It is like a photograph of your business on one particular day.



Most likely, balance sheets prepared for three consecutive days will be comprised of different figures. Financial information about a business—or about yourself as an individual—changes every day. You receive income periodically and you pay bills periodically. In effect, you manage a flow of cash.

If your cash is always in motion, why is the balance sheet so important? The balance sheet helps you control this cash flow. This control enables you to manage both your financial resources (what you own) and your debts (what you owe) effectively. The balance sheet helps the business stay profitable.

Components of a Balance Sheet

The balance sheet has three main sections (1) assets,
(2) liabilities, and (3) net worth. Exhibit A illustrates
the components of a balance sheet. Exhibit A can be used
by single proprietorships, partnerships, or corporations.

All balance sheets must follow this formula:

Assets = Liabilities + Net Worth. Assets must equal liabilities plus net worth. Or, the total derived for those items on the left side of the balance sheet under assets must exactly equal the total derived for the right side of the balance sheet under liabilities plus net worth.

All the main sections of this type of financial statement must balance.

WHAT ARE THE
"SECTIONS" IN
A BALANCE SHEET?



Exhibit A

BALANCE SHEET

DATE

ASSETS

Current - Cash

Merchandise Accounts

Receivable

Fixed - Lana

Building Machinery

Equipment

Other -

LIABILITIES

Current - Notes Payable

Accounts Payable

Non-Current Liabilities -Debts More Than One Year Maturity

TOTAL LIABILITIES

OWNERSHIP OR NET WORTH

Proprietorship Net Worth

or

Partnership Net Worth or

, O.E.

Corporate Net Worth

TOTAL LIABILITIES AND

NET WORTH

THEAL ASSETS



Assets are anything that the business owns, including cash on hand, equipment, real estate, and inventory.

Current assets include cash and anything that can be changed into cash within twelve months. Current assets include cash on hand or in the bank, accounts receivable, and inventory.

Fixed assets are those items that usually cannot be changed into cash within a twelve-month period of time. Usually they are items that the business has acquired for long-term use. Fixed assets include land or buildings purchased, machinery, equipment, or company vehicles such as delivery trucks or vans.

Liabilities are anything that he business owes.

Liabilities might include loans, trade credit notes due, income taxes, or mortgages. A current liability is anything you owe that can be paid by using a current asset. Current liabilities are usually due within twelve months. Current liabilities include income taxes, loans, and bills due to trade creditors. A long-term liability includes any debts that will not be paid within twelve months. A mortgage on property is an example of a long-term liability.

Net worth is the owned investment in the business.

It is the owner's investment in a single proprietorship, the partners' investment in a partnership, or the stock investment in a corporation.

THE PROFIT AND LOSS STATEMENT

WHAT IS A PROFIT

AND LOSS STATEMENT?

The profit and loss statement can be compared to a movie of the activities of the business during a certain period of time. Profit and loss statements are usually developed at the end of an accounting period, e.g., at the end of the month or at the end of the fiscal year.

Components of a Profit and Loss Statement

WHAT ARE THE
"SECTIONS" OF
A PROFIT AND
LOSS STATEMENT?

Profit and loss statements have five major components. These parts are (1) the total sales, (2) the cost of goods sold, (3) the gross profit, (4) expenses and (5) net profit. Each of these component

financia_ data about the firm. Exhibit B is an example of a typical profit and loss statement.

The total sales component includes both cash and credit sales. It does not include sales tax collected or products returned.

Cost of goods sold is the amount that it costs you to buy or produce the goods that you sold. If you are a manufacturer, you would also inventory raw materials and products in process and include this information. Cost of goods is calculated by taking a beginning inventory, adding materials or products purchased during the accounting period, then subtracting inventory remaining at the end of the accounting period.



Exhibit B

PROFIT AND LOSS STATEMENT	/
For Period Ending	
TOTAL SALES	\$75,000
COST OF GOODS SOLD: Beginning Inventory (Plus) Purchases (Less) Ending Inventory	55,000 10,000 15,00
TOTAL COST OF GOODS SOLD	\$50,000
GROSS PROFIT	\$25,000
EXPENSES: Salaries Payroll Taxes Rent Advertising Etc.	\$18,000 3,500 4,500 1,000 -0-
TOTAL EXPENSES	\$26,000
NET PROFIT (LOSS) (BEFORE TAXES)	(\$1,000)

Gross profit is the amount of profit made from sales before operating expenses are deducted. Gross profit is calculated by subtracting the cost of goods sold from the total sales.

Expenses include all costs involved in running the business. The list shown in Exhibit B is very incomplete Most firms would have π and more expenses.

Net profit is your profit or loss at the end of the accounting period. This does not include taxes you may need to pay on the business. In Exhibit B, the firm does not have a profit. The net profit figure is shown as a \$1,000 loss.

USING FINANCIAL STATEMENTS

HOW CAN FINANCIAL
STATEMENTS BE
USED?

A quick inspection of both types of statements can often give the entrepreneur information about the "health" of the business. Information shown on the statements can be compared to goals for the business. The profit and loss statement can be examined to determine where to cut expenses. There are also several ways of looking at your statements to see if a profit has been or will be earned.



Ratio Analyses

WHAT ABOUT THE

VARIOUS RATIO

ANALYSES?

Information in the financial statements can be utilized to compute various commonly used business ratios. Each ratio is determined by "comparing" different pieces of financial information. These ratios provide the following information:

- The return on your investment in the business.

 This information should show that you are making a better percentage return on the investment in the company than you would by investing your money elsewhere.
- . The net profit margin on sales. This information will help you examine your pricing policy and operating costs.
- Inventory turnover. This information will show you how fast products and merchandise are being sold.
- Average collection period. This information will tell you how quickly credit sales are being collected.
- you whether the business has enough current assets to meet current debts.



A financial ratio is useless by itself. Each ratio provides distinct information, and becomes useful when compared to other data, such as conditions during an earlier time period. Analysis of these ratios is one method of comparing your company with other companies or with the industry as a whole. These comparisons can point out a firm's strengths and trouble spots.

Ratio data for small businesses similar to yours can be round in several sources. Trade associations often publish typical ratios for retail, wholesale, and manufacturing firms. Many public accounting firms can compare and evaluate your ratios. Another source of ratios is <u>Key Business Ratios</u>, by Dun and Bradstreet, who publish a series of ratios for 125 lines of business.

BREAK-EVEN POINT

WHAT IS A

BREAK-EVEN POINT?

The break-even point is the point at which the business is operating with no profit or loss; at this point
expenses equal sales. The break-even point is the level
of sales that exactly covers total cost.

The following formula is used when computing the break-even point:

$$S = F + V$$

This means that sales equals fixed expenses plus variable expenses.



To determine the break-even point, you must categorize expenses as being either fixed or variable. Fixed expenses are those which remain unchanged when sales change. They include such expenses as depreciation of plant and equipment, rentals, interest charges on debts, and many general office expenses. Variable expenses are those which change in proportion to changes in sales, such as sales commissions, factory labor, cost of goods sold, and other selling expenses.

Break-even point analysis is basically a way of determining how much sales volume you will need in order to break even. Break-even analysis also helps you examine the effects of your expenses on profits.

even, so you can use the break-even point analysis to help determine what you might do to achieve a profit. It is also an effective financial tool which allows you to take a good look at your business plan and determine whether your firm can reach the plan's objectives. With the information derived from the break-even analysis, you can answer several questions, such as, Can you realistically produce or sell the amount required to simply break even? Can you realistically produce more so that you can make a profit? If the answer to both questions is "no," then you will need to go back and revise your business plan. You may have to adjust expenses, prices, or both.



EXPOSURE ACTIVITIES

Financial management is a very important part of all businesses. Try these activities to test your financial management skills.

ASSESSMENT ONE

- Prepare a balance sheet of your personal belongings including any investments such as stock, savings bonds, etc. List all debts that you may have.
 To make the statement balance, enter any excess of assets over liabilities in the net worth part of the balance sheet.
- 2. Interview at least two small business owners in your community. Ask them what financial statements they use and why. Do they prepare their own statements or use an accountant? How do they use the information? You might want to record and compare your responses using the following chart:

Financial Statements - Are They Important?								
Business #1	Statements Used 1 2	Prepared By Self-Accountant- Self-Accountant-	How Information Used 1 2 3					
Business #2	1 2	Self-Accountant- Self-Accountant-	1 2 3					



3. What is the chief difference between a balance sheet and a profit and loss statement? Explain.

ASSESSMENT TWO

Several words dealing with financial management and used in this level have been hidden in the puzzle below. Find and circle them. The answers to this puzzle are on Page 15.

R	Ε	I	р	L	В	0	С	N	D	0	А	Н	Ν	Ρ
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Н	A	X	А	S	S	Ε	T	S	H	L	I	N	Z	F
P	3	e per	B	U	٧	А	W	Т	S	А	L	E	S	I
R	Α	T	Ī	0	S	٧	S	Ρ	Н	N	I	T	А	T
Α	G	Ε	L	Р	Q	F	I	С	R	С	K	P	Q	А
W	D	J	Ī	E	М	В	J	E	L	E	L	Ř	В	N
С	0	S	T	0	F	G	0	0	D	S	S	0	L	D
U	А	٧	I	W	N	K	F	Χ	L	Н	R	F	С	L
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С	А	Υ	S	D	0	G	Y	N	М	Ε	G	T	D	S
Z	Υ	0	J	N	E	T	W	0	R	T	Н	Ε	T	S



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- 1. What is a balance sheet?
- What information does a profit and loss statement contain?
- Describe how ratio analysis information might be used by an entrepreneur.
- 4. What information does knowing the break-even point provide to the entrepreneur?
- 5. Explain what is meant by cost of goods sold and net profit.

Compare your answers to your responses to the preassessment. You may want to check your postassessment answers with your instructor.

SELF-EVALUATION

How well did you know the information needed to do the activities?

()	Very well
()	Fairly well
()	A little

Be honest with yourself. If you feel you don'c know the material well enough, it might be helpful to review this section before going on.



Answer to Assessment Two:

For answers to Activity 2, turn page upside down.

S	1	3	Н	7.1[<u>8</u>	0		1	 	N	C	0	X	Z
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a	7	Ō	S	S	D	0	0	e		0	1	S	0	<u> </u>
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EXPLORATION



PART III, UNIT B FINANCIAL MANAGEMENT

EXPLORATION

PREASSESSMENT

Here are some questions that test for knowledge of the contents of this level. If you are very familiar with the information needed to answer them, perhaps you should go to another level or unit — check with your instructor. Otherwise, jot down your answers. After you've read through this level, take the postassessment at the end of the "Exploration Activities" section and measure what you've learned.

- What is the difference between a balance sheet and a profit and loss statement?
- 2. What are assets and liabilities? Name the types of assets and liabilities.
- 3. What are the functions of financial management?
- 4. Describe these ratios and state the formula for each:
 - a. Current ratio
 - b. Average collection ratio.
- 5. What is break-even volume? Give the formula for determining these figures.



TEACHING/LEARNING OF JECTIVES

Upon completion of this level, you should be able to:

- Describe the difference between a balance sheet and a profit and loss statement.
- 2. Differentiate between current and fixed assets.
- Describe and compute four commonly used business ratios.
- 4. Describe the use of break-even point and write the formula for computing it.
- 5. Discuss the importance of financial management as it relates to making a profit.



SUBSTANTIVE INFORMATION

IMPORTANCE OF FINANCIAL MANAGEMENT

WHY IS

UNDERSTANDING

FINANCIAL

MANAGEMENT

IMPORTANT?

Most companies and firms of significant size have sophisticated tools, techniques, and personnel to oversee the financial affairs of the business. This is not the case for the typical small business owner. You, the entrepreneur, will need to utilize basic accounting statements which reflect the results of the business operation and tell its present financial condition. Even if you have your financial statements prepared by an accountant, you should understand how they are put together, what they tell you, and some of the ways in which you can use them.

Financial management includes the following functions:

- . Being sure that the business assets are used wisely to bring the highest possible return on the capital invested
- . Evaluating the need for new assets
- . Getting funds to acquire more assets
- . Paying off debts from the profits they generated

Management decisions you make must be aimed at making sure your firm stays in operation and grows.

A primary reason for owning and operating your own business is to make a profit. You have risked capital to do this. Therefore, your basic goal is to take care of the capital invested in the business and to use it as profitably as possible. Sales or



service volume is necessary to generate profits, but you need to know how to price your goods or services based upon today's costs of doing business. Business ventures that fail are usually operated by those who cannot discern whether profits are being made.

There are some basic accounting tools that will help put you in financial control of your business. The balance sheet and the profit and loss statement are two financial statements you will need to understand and analyze. In addition, knowledge of business ratio analysis and break-even analysis will be very helpful.

THE BALANCE SHEET

WHAT IS THE
BALANCE
SHEET?

The balance sheet is a picture of what your business owes and owns at a particular time. It is a photograph of your company's assets, liabilities, and net worth. Assets and liabilities are balance sheet items classified or categorized as to their maturity. Net worth reflects the owner's investment in the business.

This financial statement must balance. That is, assets to deequal liabilities plus net worth: the total of those items on the left side under assets must exactly equal the total of the right side under liabilities and net worth. There must be a balanced relationship between the availability (convertibility) of the assets and the maturity of the liabilities.

When you construct a balance sheet for your business, you implement some facet of control over your business. This control device points up the need for planning--planning in the sense the proper balance must exist.



Exhibit C illustrates a balance sheet suitable for the entrepreneur just starting in business, and includes the general components. This balance sheet format can be used by sole proprietorships,
partners, or corporations. Exhibit D is an example of a personal
balance sheet. Exhibit E reflects assets and liabilities that would
be more characteristic of a business that owns equipment and inventory.

Exhibit C

BALA	NCE SHEET
ASSETS	
Current - Cash Merchandise Accounts Receivable	Current - Notes Payable Accounts Payable Long-Term Liabilities
Fixed - Land Building Machinery Equipment	Debts (More Than One-Year Maturity) OWNERSHIP OR NET WORTH
Intangible - Goodwill Franchise Patents and Copyright Other - Cash Value of Life Insurance	Proprietorship Net Worth or Partnership Net Worth or Corporate Net Worth
Total Assets	Total Liabilities Plus Net Worth



•	s ₹7	hibit D					
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Business	DALL		:=======				
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warrant the following facts to you, which fully						do	
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you can consider as continuing and remaining you promptly of any change in financial conditions of the granting of credit any of the representations below are untrucase, all obligations of the undersigned held charged against the balance of any account to to the credit of the undersigned, also choses in the undersigned and undersisting indebtedness, this statement shall be determined to the credit, extension or renewal fill ALL BLANKS. WHERE NO	full, true and accurate unlition that materially reduced to the undersigned agree by if the undersigned fault by you shall immediately be the credit of the undersiant action, from time to time erstood that in the even last valid and binding as if his requested and aranted his requested and aranted	as here of chand- as the pecuniary re- that in the event of a natify you in writ- become due and po- dod with you. A co- existing, to secure make application for delivered as a true	which the real probability of footballing of factorial the real particular and the real particular factorial particular further creat and correct to the real particular factorial correct.	and 31 mg/se the undersian weak or command or nearly discommand or new thereby division of the understatement of metallicity of the restatement of metallicity and the restatement of the re	ed interesty a ed intring an act of a carreed their latice and the on any balan reigned held be snewal or ext y financial cost	ade, to n of bankrup of or in ei same mar ce on der oy you ension of adition of	picy; ither y be posit
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		Notes owind by					
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Exhibit E

INDIVIDUAL OR CORPORATION FINANCIAL STATEMENT

(SHORT FORM)

NAME			(DATE)	
BUSINESS OR				
OCCUPATION		ADDRESS	· · · · · · · · · · · · · · · · · · ·	
то				
	• -	OF BANK)		
FOR THE PURPOSE OF OBTAINING ADVANCES FROM TIME SIGNED, AND OF OBTAINING CREDIT GENERALLY, THE UNDER	ME TO TIME ON BILLS DSIGNED MAKES THE	NOTES AND OTHER COMMERCIAL PAPER SIGNED OR E	NDORSED BY THE UNDER- NDITION AS OF THE CLOSE	
OF BUSINESS ON THE DAY OF 13	AND CERTIFIES	TO THE ABOVE-NAMED BANK THAT THE INFORMATION H	EREINAFTER SET FORTH IS	
			DATE AFOREMENTIONED.	
		HERE NECESSARY TO COMPLETE INFORMATION.)		
ASSETS		LIABILITIES		
CASH ON HAND AND IN BANKS		NOTES PAYABLE TO BANKS (SEE SCHEDULE)		
NOTES RECEIVABLE		NOTES PAYABLE TO OTHERS (SEE SCHEDULE)		
ACCOUNTS RECEIVABLE		ACCOUNTS PAYABLE (SEE SCHEDULE)		
MERCHANDISE LIFE INSURANCE—CASH SURRENDER VALUE		TAXES DUE		
(DO NOT DEDUCT LOAMS)		RENT DUE		
SECURITIES (SEE SCHEDULE)		LOANS AGAINST LIFE INSI/RANCE	-	
OTHER CURRENT ASSETS (ITEMIZE)		ACCRUED EXPENSES		
		CHATTEL MORTGAGES	1 1	
		REAL ESTATE MORTGAGES	1 1	
REAL ESTATE (SEE SCHEDULE) MACHINERY, FURNITURE AND FIXTURES (USED IN BUSINESS)		RESERVES (ITEMIZE)		
PREPAID EXPENSES		OTHER LIABILITIES (ITEMIZE)		
OTHER ASSETS (ITEMIZE)				
		TOTAL LIABILITIES	i	
		NET WORTH (IF NOT INCORPORATED)		
		CAPITAL STOCK (IF INCORPORATED)		
		PREFERREDSHARES \$PAR_	1 1 1	
		COMMONSHARES SPAR_		
		SURPLUS		
TOTAL		TOTAL		
CONTINGENT LIABILITIES	_		,	
LIABILITY AS ENDORSER ON NOTES OF OTHERS LIABILITY AS GUARANTY OR SURETY FOR DEBTS OF OTHERS		ALL OTHER CONTINGENT LIABILITIES: (FFEMILE)		
LIABILITY FOR JUDGMENTS OR SUITS PENDING		TOTAL CONTINGENT LIABILITIES		



Assets

WHAT ABOUT
ASSETS?

Assets are balance sheet entries that show what your business owns. Assets can be categorized as either current, fixed, intangible, and other. These categories are based on the availability of items; that is, the length of time it takes to convert them to cash. These categories can help you control your business and describe the assets your business owns. To guide management of the business, each item should be analyzed and compared in a consistent, meaningful manner. These comparisons will reflect changes in the financial picture of your business over a period of time. If your business is going to have an effective inventory policy and maintain capital investment that has a proper balance of fixed and current assets, then a realistic and accurate picture of what your business owns should always be available.

Current assets are those assets that, in the normal course of business, are expected to be converted into cash within twelve months. The reason for the twelve-month stipulation is twofold. First, most business managers consider that length of time as a normal cycle for their business. Second, tax returns with state and local governments are filed on an annual basis. When you are attempting to assign the assets to this category, ask yourself this question: "What is the likelihood that this asset



will be converted into cash within twelve months?" Merchandise and accounts receivable are normally defined as current assets on a balance sheet. However, using the twelve-month rule, it is possible that a portion of either one of these categories may not be considered a current asset. Suppose someone owes your business some money and you are carrying the amount due as part of your accounts receivable. Because of the nature of the contract or sale, it is agreed that payment will not be due for eighteen months. The sale will not be turned into cash within the twelve-month period. Or, suppose your firm has some inventory that, because of its nature, is either seasonal or currently unfashionable. If you estimate that it will be more than twelve months before a sale can be made, then this particular item of merchandise should be treated as another type of asset and not a current asset.

Fixed assets are assets which are used over a period of several years of normal operations. Generally speaking, they are used to help convert current assets into cash. For example, a retailer operates a business from a building he or she owns. The building is an investment which houses the retailer's inventory. Because the building probably has a useful life of more than twelve months, it is considered an asset of a somewhat more permanent nature than inventory or accounts receivable. The building is a



fixed asset, for without it the retailer would probably have a difficult time converting inventory into cash. When looking at a balance sheet that is comprised totally of fixed assets, you should remember that the value of the fixed assets may be based on cost less any depreciation. A more realistic estimate of worth may be the market value or the value it would take to replace the fixed assets.

The three examples listed in Exhibit C are probably the three most common intangible assets that a small business can have. Goodwill is the value that accrues to a business from customers, image in the community, or reputation of servicing the public. Determining a value for it is arbitrary. However, if you were to purchase an ongoing business, most likely a portion of the purchase price would be for this intangible asset. Other common examples of intangible assets are franchise fees, patents, and copyrights, which are tangible only in that a legal document substantiates their existence.

Other assets is a catchall category of assets. If an asset is not current, fixed, or intangible, it should be included in the "other assets" category. The asset most commonly found in this category is the cash value of any life insurance. This value represents your "equity" in or "ownership" of an ordinary life insurance policy purchased for yourself. As you pay premiums over the life of the policy, a certain cash value accumulates and is available to you by borrowing from a bank or the insurance company. Or you may wish to cancel the policy.



Other assets may also include accounts receivable, or other debts due to you that are not current, and investments, such as stocks and bonds, that you may have in other companies.

Liabilities

WHAT ARE
LIABILITIES?

Business liabilities express the cash value of what you owe to others. They are closely tied to business assets. Liabilities are debts incurred by the business to acquire assets. Liabilities may be classified as current liabilities or long-term liabilities.

A current liability is an obligation you owe to some individual or firm which will be settled by use of a current ass. Usually, a current liability matures or comes due within twelve months. These liabilities are debts that are due within one year to be paid with cash assets or assets which will be converted into cash within ninety days.

The most common type of current liability is accounts payable. When you order and receive merchandise and services for labor performed, you incur a debt that usually will have to be paid within one year. These debts are considered accounts payable in that they are due on account with your suppliers.



Other types of current liabilities are withholding and social security taxes payable. These are liabilities that cause entrepreneurs considerable problems. Money withheld from your salary and your employees' salaries in the form of payroll and income taxes must be submitted to federal, state, and local governments within specified time periods, usually quarterly. Some businesses that are short on funds will use this money for operating purposes and ultimately place themselves in difficulty with the Internal Revenue Service or other taxing authorities.

Another common type of current liability is the portion of a long-term debt that is due within one year. Examples of this type of current liability include mortgages and long-term notes payable.

Long-term liabilities are those debts that are due after twelve months of maturity. They consist normally of real estate mortgages, long-term loans, and similar obligations. Usually the funds obtained from entering debts of this nature are used to purchase buildings, equipment, and other fixed assets.

Net Worth

WHAT IS

NET WORTH?

Basically, the net worth entry reflects the owner's equity or investment in the business. These assets are acquired either by incurring debt or with funds invested by the owner. The net worth entry on a balance sheet of



a sole proprietorship states the owner's investment in the business. The net worth entry for a partnership states each partner's investment separately.

The principal function of the ownership or net worth entry is to act as a cushion for any losses that may occur. As far as the creditors are concerned, the net worth acts as a protection in case of nonpayment of debt. Businesses that fail will often end up with a net worth that is negative. That means that the creditors not only have a claim on all the assets, but that after all assets are converted to cash, there will not be enough funds to pay off all debts.

THE PROFIT AND LOSS STATEMENT

WHAT IS THE

PROFIT AND LOSS

STATEMENT?

The profit and loss statement is a financial statement which reflects the income and expenses of a business over a period of time. This contrasts with the balance sheet which provides the financial picture of a business as of a given date, contains a limited amount of information by covering only one business day, and it does not tell the entrepreneur how efficiently the assets of the business are being used. The profit and loss statement is truly an operating record which provides you with measures of your efficiency and ability to make a profit. Exhibit F is a profit and loss statement suitable for the entrepreneur who is just starting a business.

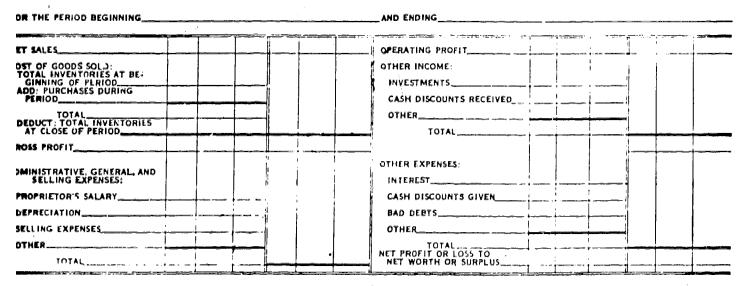


Exhibit F	
PROFIT AND LOSS STATEMENT Gross Sales - Less Returns and Allowances	
Net Sales Cost of Goods Sold: Beginning Inventory Plus Purchases and Freight Minus Ending Inventory Total Cost of Goods Sold	
Gross Profit or Margin on Sales (Net Sales Minus Total Cost of Goods Sold) - Selling Expenses - Operating Expenses	
Net Profit on Business	

Exhibit G is another example of a profit and loss statement.

Exhibit G

STATEMENT OF PROFIT AND LOSS



(American Banker's Association, 1940)



Components of a Profit and Loss Statement

WHAT ARE THE

COMPONENTS OF

A PROFIT AND

LOSS STATEMENT?

The profit and loss statement has parts or categories which are commonly used for constructing or presenting the statement. The first, and probably the most important component, is gross sales. In the case of a typical retail business, this component represents the basic source of revenue and is comprised of total revenues received from sales for the year. This item is adjusted to arrive at a net sales figure by deducting returned merchandise or allowances for spoiled or damaged merchandise. If the business is operated by a plumber, contractor, or person who sells services rather than merchandise, the category would be labeled gross billings.

The second component is the <u>c</u> of goods

sold section. The cost of the merchandise that your firm

sells should be distinguished from other expenses of doing

business and listed separately. This figure represents

the total price paid for the products sold during the

accounting period, plus in transportation costs.

After you have determined the net sales and the cost of goods sold, it is possible to culate third component, the gross profit on sales, or what is commonly named gross margin. The gross margin equals sales less cost of sales, which is really the dollar portion of your sales that represents your markup on the inventory.



If in analyzing your profit and loss statement, you find that your profits are not as much as they should be, you can either increase your margin (or markup) on your existing sales volume, or increase the sales volume on the same margin. Gross margin does not take into account selling or operating expenses.

The fourth component includes two categories of expenses: selling and other operating expenses. These are important expenses in most businesses. Selling expenses are those expenses that result from activities performed to increase the sales volume. They would include salespersons' salaries, travel expenses for salespeople, delivery expenses, and advertising.

Other operating expenses are those expenses incurred in the general operation and administration of the business. They would include office expenses and salaries, accounting expenses, telephone expenses are for equipment, and depreciation of equipment and building. In short, "other" operating expenses include any expense that is not directly attributable to sales or service income and is considered an overhead expense.

The last component of a profit and loss statement is net profit. The net profit of the business is the final profit after all normal costs and expenses for the accounting period have been deduc. Net profit is the "bottom line" which summarizes the results of your business. For example, the deduction of total selling expenses from gross profit on sales permits the determiniation of net profit on sales.

Net profit on sales indicates the profitability of all buying and selling activities before allowances are made for the general overhead costs of conducting the business.

Net profit does not reflect any income taxes because income taxes are not considered a normal operating expense. If you are operating a sole proprietorship, net profit from your business will be transferred to your individual federal income tax return on Schedule C, Form 1040, and may be only a portion of your total taxable income.

A Small Manufacturer's Profit and Loss Statement

Because the small manufacturer coverts raw materials into finished goods, the method of accounting for cost of goods sold differs from the method used by wholesalers, retailers, and service firms. As in retailing and wholesaling, computing the cost of goods sold during the accounting period involves beginning and ending inventories, and purchases made during the accounting period. But in manufacturing, it involves not only finished goods inventories, but also raw materials inventories, goods-in-process inventories, direct labor, and factory overhead costs.

To avoid a long and complicated profit and loss statement, the cost of goods manufactured is usually reported

DO PROFIT AND
LOSS STATEMENTS
VARY ACROSS
TYPES OF
BUSINESSES?



separately. A few of the common terms used in this type of profit and loss statement for a typical small manufacturing company are a) Raw materials—the materials that become a part of the finished product, b) Direct labor—labor applied directly to the actual process of converting raw materials into finished products, c) Manufacturing overhead—depreciation, utilities, insurance, real estate taxes, the wages of supervisors and others who do not work directly on the product, etc. This last term should include all manufacturing costs other than raw materials and direct labor.

NUMERICAL FINANCIAL INDICATORS

WHY USE NUMERICAL
ANALYSES?

How can you use the information from the balance sheet and the profit and loss statement for financial management? A visual check of these financial statements will give you a feeling for the state of your business. For instance, they can tell you if your sales costs and profits are close to those projected by you for the accounting period.

In addition to providing a visual review, information in financial statements can be used in other ways. Various useful relationships exist between some of the figures presented. A number of indicators have been worked out for comparing the figures.



Ratios

WHY ARE RATIO

ANALYSES

IMPORTANT?

In many ways, these indicators, often expressed as ratios, are more useful for analyzing your business operations than the dollar amounts. Computing ratios will make it possible for you to compare your firm's performance with the average performance of similar businesses as well as provide you with clues for determining the trends in your business operations. Ratios will not provide you with any automatic solutions to your financial problems. They are only tools—although very important ones—for measuring the performance of your business. If warning signs appear, look for causes and find possible solutions.

There are four common ratios:

- . Current ratio
- . Acid-test ratio
- . Average collection ratio
- . Inventory ratio

Current Ratio

 One of the most widely used ratios is the current ratio. It measures current assets available agains current debts. Remember that current debts are all debts falling due in a period of twelve months. Usually a current ratio of 2 to 1 is considered good. Below is an example using information taken from a balance sheet:

 $\frac{\text{Current Assets}}{\text{Current Liabilities}} = \frac{\$7,000}{\$3,000} = 2.33 \text{ (or } 2.33 \text{ to } 1)$



Although a current ratio of 2 to 1 is generally considered good, determining whether specific ratio is satisfactory depends on the nature of the business and any special characteristics of its current assets and liabilities.

If your current ratio is not as you would want it, then you need to investigate how to decrease your current liabilities or increase your current assets.

Acid-Test Ratio

WHAT INFORMATION

DOES THE ACID
TEST RATIO PROVIDE?

This ratio is similar to the current ratio except that the liquid (immediately available) assets are considered in determining the ratio. The ratio answers the mestions of whether the business could meet its current liabilities if all cash income from sales sudden! stopped. An actest ratio of 1 to 1 is considered good. Here is an example using information taken from a balance sheet:

$$\frac{\text{Current Assets}}{\text{Current Liabilities}} = \frac{\$4,000}{\$3,000} = 1.33$$

Since the acid-test ratio does not include inventories, it concentrates on such liquid assets as cash, government securities, and receivables.

Average Collection Ratio

WHAT INFORMATION

DOES THE AVERAGE

COLLECTION RATIO

PROVIDE?

By computing the average collection ratio you can determine whether your average collection period for accounts receivable is too long. The collection period should not exceed your credit time by more than ten to fifteen days. Knowing the average collection period gives



Part III, Unit B Financial Management

you information about the quality of your credit accounts.

If the amount of time involved in collecting accounts receivables is empessive, the credit lection in icies should be examined

The number of days involved in collecting accounts receivable can be calculated using information from the balance sheet and the profit and loss statement. The formula for calculating the average collection ratio involves two step:

Step 1 Net
$$\frac{S^{-1} \cap S}{Day}$$
 for $\frac{for \ yc}{for \ set}$ Av les each day

Using information taken from a balance sheet and a profit and loss statement, the average collection period is computed for a sample firm:

Step 1 Net sales for year
$$= 300,000 = 822$$
 average sales pays open for selling $= 365$ each day

Step 2 Accounts receivable =
$$\frac{400,000}{822}$$
 = $\frac{49 \text{ days involved}}{49 \text{ in collecting the accounts receivable.}}$

Inventory Ratio

WHAT INFORMATION

DOES THE INVENTORY

RATIO PROVIDE?

The inventory ratio tells you how fast your merchandise is being sold by comparing costs of goods sold and average inventory. The ratio for your business should be compared to turnover rates for businesses similar to yours.



A desirable rate depends on your level of business, type of inventory, and location of firm. If your business is subject to seasonal sales, you will want to determine inventory ratio each month. A high ratio usually indicates that your business has inventory that is current and salable and that your firm has good pricing policies. However, inventory ratio may reveal an inventory turnover rate that is too high. This condition can lead to inventory shortages and dissatisfaction among customers who cannot get what they want when they want it.

Information for the ratio is taken from the balance sheet and the profit and loss statement. Below is a formula for determining your inventory turnover:

Cost of goods sold Average inventory times inventory turnover in stated period of time.

Break-Even Point

Another indicator available in helping you determine how well your finances are working is the break-even point. The break-even point is the amount of sales that your business needs to have in order to have neither a loss nor a profit. It is the point where sales volume just covers costs. Of course, you want to make a profit. Therefore, knowing the break-even point will allow you to set your sales goal higher and watch expenses closely. It will also help you determine whether—and when—your business will begin

WHAT IS A

BREAK-EVEN

POINT?



to make a profit.



Part III, Unit B Financial Management

In order to compute the break-even point or volume, you need the total fixed cost and variable cost figures from your financial statements. The formula is:

Break-even point = Total fixed cost

Selling price--variable cost
per unit.

Consider an example. Your total fixed cost is \$15,000. The selling price per unit is \$100 and the variable cost per unit is \$25. So, in order to break even, you need to sell 200 units.

Break-even point = $\frac{\$15,000}{\$100 - \$25}$ = 200 units. Thus more than 200 units will have to be sold before any profit will be realized.

EXPLORATION ACTIVITIES

Do you feel knowledgeable enough in financial management to put into practice the management tools discussed in this level? The following activities will help you experience some "real" situations. After completing the activities, do a self-evaluation to check your understanding of the material.

ASSESSMENT ONE

- Prepare a personal balance sheet using the form contained in Exhibit D or E of the text.
- 2. Below is a list of current and fixed assets and current and long-term liabilities:

Short-term loans
Equipment
Cash
Inventory
Mortgage
Trade credit
Land
Long-term loan
Accounts receivable
Building.

a. Divide the items in the list above into assets and liabilities.



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- b. Label the items in the list of assets as either current or fixed. Label the liabilities either current or long-term.
- 3. Distinguish between current and fixed assets
- 4. Define these terms:
 - a. Cost of goods sold
 - b. Net worth
 - c. Current liability
 - d. Intangible assets
 - e. Gross margin.

POSTAS SESSMENT

- Distinguish between a balance sheet and a profit and loss statement.
- Define assets and liabilities and describe two types of assets and liabilities.
- 3. Describe the functions of financial management.
- 4. Describe these ratios and state the formula for each:
 - a. Current ratio
 - b. Average collection ratio.
- 5. Discuss break-even volume and state the formula for determining these figures.



Compare your answers to your responses to the preassessment. You may want to check your postassessment answers with your instructor.

SELF-EVALUATION

How well did you know the information needed to do the activities?

() Very well() Fairly well() A little.

Be honest with yourself. If you feel you don't know the material well enough, it might be helpful to review this section before going on.



PREPARATION/ ADAPTATION



PREPARATION/ ADAPTATION

PART III, UNI FINANCIAL MANAGEMENT

PREASSESSMENT

Here are some questions that test for knowledge of the contents of this level. If you are very familiar with the information needed to answer them, perhaps you should go to another level or unit—check with your instructor. Otherwise, jot down your answers. After you've read through this level, take the costassessment at the end of the "Preparation/ACaptation Activities" section and measure what you've learned.

- 1. How are balance sheets and profit and loss statements used in financial management?
- What are current ratio and acid-test ratio? Give the formulas used to compute each.
- Identify the components of a change in owner's equity statement.
- 4. Draw and explain a break-even point graph, including components.
- 5. What are the similarities and differences between financial ratios and financial statements?



TEACHING/LEARNING OBJECTIVES

Upon completion of this level, you should be able to:

- Prepare a balance sheet and a profit and loss statement.
- Describe the information provided by financial ratios.
- 3. Analyze the profit and loss statement and the balance sheet of a new business.
- List reasons for preparing graphs of financial data.
- 5. Prepare a change in owner's equity statement.
- 6. Use break-even analysis to determine the relationship between costs and profits.



SUBSTANTIVE INFORMATION

FINANCIAL MANAGEMENT TECHNIQUES

WHY STUDY

FINANCIAL

MANAGEMENT

TECHNIQUES?

To operate your business successfully, you will have to be able to use financial management techniques. A working knowledge of the basic financial statements used in business will help you plan your anticipated investment in the business, and will help you project a desired income from your business. The key word in financial management is control. A command of the tools and techniques of financial management will help you exercise control. You will also be able to establish fundamentals for success much more easily if you have a solid background in control through financial management.

The fundamentals for success include:

- Proper balance and investment in assets such as a building, fixtures, and other equipment
- Sound management of both short-term and long-term debts
- Sound credit terms and practices relating to selling on credit
- 4. A reasonable appraisal of whether or not you are realizing an adequate rate of return on your investment, based upon the amount invested in your business and the time you devote to it.



45

FINANCIAL STATEMENTS

DO FINANCIAL STATE-MENTS HELP IN DEVELOPING GOALS? The balance sheet, profit and loss statement and owner's equity statements are tools an entrepreneur can use to provide a written statement on the financial goals for a business.

Before you open your business, you should set goals for your proposed venture. Obviously these goals may change, but by establishing a meaningful financial plan of your operations, you automatically set future goals and targets which are not only measurable but also meaningful in dollars and cents.

Information From The Balance Sheet

OW CAN YOU USE THE
ALANCE SHEET?

The balance sheet is a photograph of the business at a given time, showing its assets, liabilities, and the owner's investment on a particular date. It may also be a projected statement used to determine goal achievement or to provide information for obtaining a loan. The balance sheet is usually prepared on the last business day of the month.

In the balance sheet, the total assets are equal to the total liabilities plus the net worth of the business. The equation for the balance sheet is: Assets = Liabilities +

Net Worth. Assets are anything that the business owns, including cash on hand, equipment and inventory. The assets include both current and long-term debts. Net worth is the owner's or owners' investment in the business.

Exhibit H is a pictorial representation of the items found in a balance sheet.



EXHIBIT H

BALANCE SHEET

This is how the business looks on a specific date.

ASSETS

What the business itself owns.

L'ABILITIES

This side of the balance sheet shows the claims on the assets—by both creditors and owners of the business. The claims of creditors are deots of the business—the LIABILITIES. The owner's claim is his investment in the business—the NET WORTH.

CURRENT ASSETS: In varying states of being converted into cash—within the next 12 months.



CASH: Money on hand, in the bank,



ACCOUNTS RECEIVABLE: What the customers owe the business for merchandise or services they bought.



INVENTORY: Merchandise on hand:

- 1) ready to be sold
- 2) in some stage of production
- 3) raw material

FIXED ASSETS: Used in the operation of the business. Not intended for resale.



REAL ESTATE: Land and buildings used by the business. Listed at original cost.

LEASEHOLD IMPROVEMENTS: Permanent installations remodeling or refurbishing of the premises.



MACHINERY. EQUIPMENT. VEHICLES: Used by the business. Listed at original cost.



Less Accumulated Depreciation: These assets (except land) lose value through wear, tear and age. The business claims this loss of value as an expense of doing business. The running total of this expense is the accumulated depreciation.

NET FIXED ASSETS: Cost of fixed assets less depreciation = Present Value.

CURRENT LIABILITIES: Debts owed by the business to be paid within the next 12 months.



NOTES PAYABLE: IOU Bank or Trade Creditors.



ACCOUNTS PAYABLE: IOU Trade & Suppliers.



INCOME TAXES: IOU Government.

LONG-TERM LIABILITIES: Debts owed by the business to be paid heyond the next 12 menths.



MORTGAGE: On property.

NET WORTH: Owner's (or stockholders') claim on the assets of the business: his investment. His equity in the business



For Proprietorship or Partnership: MR. OWNER, CAPti'AL: Owner's original investment plus any profit reinvested in the business

For Corporation:

CAPITAL STOCK: Value assigned to the original issue of stock by the directors of the corporation. If the stock sold for more than the assigned value, the excess will show as:

SURPLUS, PAID IN: The difference between assigned value and selling price of the original issue of stock. (The subsequent selling price of the stock does not change the assigned value.)

RETAINED EARNINGS: Profits reinvested in the business AFTER paying dividends.

BALANCE SHEET EQUATION: ASSETS = LIABILITIES + NET WORTH

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Inturmation From the Profit and Loss Statement

HOW CAN YOU

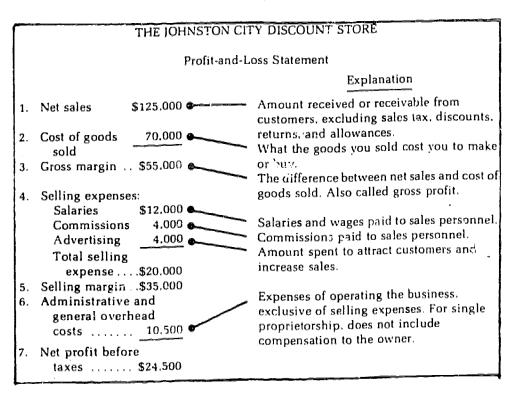
USE THE PROFIT

AND LOSS

STATEMENT?

The profit and loss statement is like a movie that pictures costs and expense against sales and revenue over a period of time. The profit and loss statement, sometimes called the income statement, has five basic parts 1) total sales, 2) cost of goods sold, 3) gross profit, 4) expenses and 5) net profit. The "bottom line" on the profit and loss statement shows whether the business made or lost money during the period (Exhibit I).

EXHIBIT I



From <u>Principles of Small Business Management</u> by S. N. McFarlane. Copyright 1977, McGraw-Hill Book Company. Used with permission of McGraw-Hill Book Company.

Owner's Equity Financial Statement

WHAT IS AN OWNER'S
EQUITY FINANCIAL
STATEMENT?

The third fundamental financial statement is the change in owner's equity schedule. The change in the owner's equity statement reflects those significant items that change the net worth or the amount of capital or funds invested by the owner of the business. This schedule includes the owner's withdrawal or salary. Other adjustements indicated on this financial statement are additional investements by the owner of the business or possibly a write-down or an adjustement for value of equipment and building. For the new entrepreneur, it is important to remember that additional capital may be needed to keep the business in operation and that nonrecurring items such as a write-down of business equipment may be necessary. These changes will be reflected in the change in owner's equity financial statements. They should also be considered as an integral part of the firm's operating records. Exhibit J is a proforma schedule which reflects the statement of the proprietor's capital and shows any changes in the owner's equity.



EXHIBIT J

J. Q. Entrepreneur Business Statement of Change in Owner's Equity For Year Ending December 31, 19				
9 xxxx.xx	;			
xx.xx xx.xx xxxx.xx				
xx.xx				
XX.XX				
<u> </u>	-			
xxxx,xx	ξ ,			
XX	.xx xxxx.xx xxxx.xx			



FINANCIAL STATEMENT ANALYSES

HOW ARE FINANCIAL
STATEMENTS

ANALYZED?

There are various financial reports that can be helpful in financial management. The principal ones are the balance sheet and the profit and loss statement. They are the basis for financial analyses of your firm. Financial statement analysis is a control method in which information from both the balance sheet and profit and loss statement is examined and relationships among items are established and compared. Information from current and projected statements can be analyzed in the same way. These comparative measures (stated as ratios) answer questions such as:

Can the company pay its bills on time? Is the money invested in the firm bringing you as much profit as it could? Careful financial analyses not only help you in assessing the firm's financial condition but also assist you in making sound management decisions.

Financial Ratios

HOW USEFUL ARE Financial ratios make it possible for you to compare your FINANCIAL RATIOS? company's performance with the average performance of similar businesses. However:

All businesses are not exactly comparable. There are different ways of computing and recording financial data on financial statements. Therefore, there may not be exact points of comparison; that is, figures for your business may not exactly compare to those for a business whos figures are computed or recorded in a different manner.



- . Ratios are computed for specific dates. Unless the financial statements are prepared often, the most recent data of your firm may be incommute.
- . Financial statements show what has happened in the past. One of the best uses of a ratio is to provide you with clues regarding future problems and opportunities. But since ratios are based on past performance, you will need to use your entrepreneurial skills to predict and make judgements about the future.

Trade associations regularly publish ratios for retail, wholesale and manufacturing firms. Dun and Bradstreet, Inc. annually publishes business ratios. If you use the services of a large public accounting firm, they will probably have access to standard ratios and can advise you regarding your firm's financial condition.

The four "key" business ratios include 1 current ratio,

2) acid-test ratio, 3) debt to tangible net worth, and 4) inventory ratio.

Current Ratio

WHAT IS

CURRENT

RATIO?

Current ratio is one of the most commonly used measures of a firm's financial strength. The main question it answers is:

Does your firm have enough current assets to meet its current debts—with a margin of safety for possible losses such as inventory shrinkage or uncollectable accounts?



Carrent ratio is current assets divided by current liabilities. This figure should be at least 2:1, thus providing ample margin for eventual payment of current debts. The current ratio is computed by using this formula:

Current ratio = Current Assets
Current Liabilities

There is a difference between current ratio and working capital. Working capital represents the dollar amount of current assets minus the dollar amount of current liabilities. When computing working capital remember that your inventory may be highly seasonal, thus making it easy to overstate your working capital. Usually your liabilities are items due within one year and payment cannot be postponed. It is your current assets that are subject to analysis, they should be examined carefully before computing the final figure. Therefore, if a substantial amount of the working capital is tied up in accounts receivable, you may want to consider the policy of accepting national and bank credit card purchases. This would partially minimize your receivables. However, there is usually a 3% to 5% charge for converting your receivables into cash when you use national and bank credit card systems.



Acid-Test Ratio

WHAT IS ACID-TEST RATIO? A more accurate ratio, which measures the debt paying ability of a business, is the acid-test ratio. The acid-test ratio measures only cash and accounts receivable as the current assets against all of the current liabilities. In other words, inventory has been eliminated from the current assets and the ratio calculated is the adjusted current ratio. The rule of thumb is that this figure should be 1:1.

The acid-test ratio is computed by using this formula:

<u>Cash + receivables + government securities</u> <u>Current liabilities</u>

This ratio will show if you should have enough in cash and accounts receivable to pay all of your current liabilities at any one given time. It answers the question: If all cash income from sales were to stop, could the firm meet its current debts with readily convertible funds:

Debt to Net Worth

WHAT IS DEBT TO

NET WORTH

RATIO?

The debt to tangible net worth ratio is another "key" ratio.

Debt, of course, represents all debts—both current and long—term.

Tangible net worth is the worth of a business, minus any intangible assets such as goodwill, trademarks, patents, copyrights, o franchise fees. Intangible assets that have an indeterminable value should not be included in net worth. For example, goodwill represents a value of earning power acquired over a period of time.

For a new business, its value is somewhat vague, and does not need to be added into a ratio which compares what the firm owes to what it owns.



If the ratio of debt to tangible net worth is greater than 1:1, then the business is undercapitalized and debt should be reduced or additional capital should be invested. A lender, such as a bank, will find it difficult to lend money to a firm whose debt exceeds the net worth.

To determine the debt to tangible net worth ratio, use this formula:

Lebt to tangible Net Worth = Current liabilities
Tangible net worth

Inventory Ratio

WHAT IS
INVENTORY
RATIO?

Inventory ratio measures "costs of goods sold" against average inventory. This ratio tells you how fast your merchandise is being sold. The formula for determining inventory turnover is:

Cost of goods sold
Average inventory
a number of times inventory turns over
in a stated time period

Usually, a moderately high ratio indicates that your inventory is current and saleable and that your firm has good pricing policies. An extremely high ratio may indicate that your inventory turns over too often—this may lead to shortages and customer dissatisfaction. A study of turnover rates in similar businesses will help you determine the appropriate rate for your business.

FINANCIAL PROJECTION: A CASE STUDY

HOW CAN

Betty Jones owns and operates Jones Gift Shop. The shop, located

FINANCIAL in a New Jersey resort town, is a seasonal business open only

PROJECT- in the summertime. The store site is rented. Jones selected the site

IONS HELP? herself. She then became a part of a national franchise organization.



by paying the one-time fee of \$1,000. She now pays a \$100 fee each year as dues to the organization which provides advertising and other management assistance services. Today the business is doing well.

Betty Jones took a number of steps to minimize her risks.

Jones began her business venture with \$10,000 and several trips to a competent accountant. On her first trip she presented the accountant, Sharon Barnes, with the following investment breakdown:

\$10,000

1.	The owner	\$ 6,000
2.	Trade credit	3,000
3.	Note (payable to an individual or to a bank)	1,000

TOTAL

Using this breakdown, Barnes developed the projected balance sheet shown in Exhibit K. Exhibit K shows that only \$4,000 of the original \$10,000 is to go for inventory. The remaining \$6,000 is earmarked for working capital, equipment, and the franchise fee. During that first meeting, Jones began to think of the balance sheet as a financial picture of the shop as of a specific date. Before she left, Barnes constructed ratios based on the opening-day figures. The current ratio was greater than 2:1 (which is the commonly accepted minimum) and the acid-test ratio, a ratio that reflects Jones' ability to pay current debts, was a favorable 1:1. Barnes also calculated a debt-cotangible-net worth ratio be measuring the \$4,000 debt against a tangible net worth of \$5,000 (\$6,000 minus the \$1,000 franchise fee). After allowing for intangible assets, Barnes came up with an 8:1 ratio. This



EXHIBIT K

Jones Gift Shop

Projected Balance Sheet

ASSETS	Opening Day	End of Year l	End of Year 2	End of Year 3
Cash	3,000	2,000	2,000	4,900
Inventory	4,000	5,000	6,000	7,000
Accounts Receivable		2,600	2,900	3,000
Total Current Assets	7,000	9,600	10,900	14,900
Equipment	2,000	1,500	1,000	500
Building				==== '
ther(Franchise Fee)	_1,000	1,000	1,000	1,000
Total Fixed & Other	3,000	2,500	2,000	1,500
otal Assets	10,000	12,100	12,900	16,400
IABILITIES				
ccounts Payable	3,000	3,700	4,000	4,500
ther Debts Due within				
1 Year				
Total Current Liabilities	3,000	3,700	4,000	4,500
ong-Term Debt		====		
otes Payable to Others	1,000	. 500		
Total Long-Term Debt	1,000	500		
Total Debt	4,000	4,200	4,000	4,500
wner's Equity	6,000	6,900	8,900	11,900
otal Liabilities &	10,060	12,100	12,900	16,400
Owner's Equity	4 			·
urrent Ratio	2.33:1	2.59:1	2.72:1	3.31:1
cid-Test Ratio	1:1	1.24:1	1.22:1	1.75:1
ebt to Tangible Net Worth	.8 :1	.7 :1	.5 :1	.24:1

73



too, was a favorable ratio. It indicated that Jones had more invested in her business than her creditors did.

During that first meeting, they also discussed the income

Jones hoped to earn through the shop. Jones recognized the

importance of establishing financial goals. "To do this we should

prepare a profit and loss statement for the shop," Barnes advised.

She explained that a projected profit and loss statement:

- 1. Establishes goals and timetables for reaching the goals.
- Describes anticipated trends in profits or inventory turnover.
- Relates the profits of the business to the investment in the business.
- 4. Becomes a base or a benchmark which, when compared to actual figures, can be used to adjust projections.

Sharon Barnes suggested they do some research before their next meeting. They would need three other statistics 1) average merchandise turnover rate, 2) average markup on margin, and 3) profits as a percentage of sales for business similar to Jones Gift Shop, to develop an accurate projection. Between meetings, Barnes obtained figures from the local Chamber of Commerce. Jones completed her own research by visiting the local Small Business Administration (SBA) office. She also obtained information from trade associations, the local library, and Dun & Bradstreet, Inc.

Jones arrived at the second meeting knowing a little more about average merchandise turnover, average markup, and profits as a percentage of sales. Barnes began their session by explaining,



"Merchandise turnover is nothing more than the number of times that the average inventory of your business turns over or is sold in a given time period. As an entrepreneur, it will be necessary for you to project or estimate the investment you will carry in inventory and the cost of goods sold in your shop for any given operating year.

"Average markup or margin," Barnes continued, "Is computed by dividing the markup in dollars by dollar sales. The percentage that results will help you estimate your gross margin based on an estimated level of sales.

"To complete an accurate statement you must also measure profits as a percentage of sales. You can do this by dividing the net profit (the bottom line) by sales. This should be net profits before income taxes, as other income items may enter into your tax calculations."

Between sessions Barnes had completed the three year profit and loss projection for the gift shop shown in Exhibit L. They discussed the projection, referring at times to the projected balance sheet (Exhibit K) developed during the first meeting. Note that at the end of the second year, the shop continues to show improvement in the balance sheet. The current ratio is 2.72:I, the quick ratio or ability to pay all current debts has improved considerably, and the debt to net worth ratios has declined to .5:1. Profits are being invested in inventory and the margin or average markup has continued to average over 50%. At the end of the third year,



Projected Profit and Loss

	First Year	Second Year	Third Year
Gross Sales	22,500	30,000	34,000
Less: Returns - Allowances	1,500	2,000	2,500
Net Sales	21,000	28,000	31,500
Cost of Goods Sold:		•	
Beginning Inventory	4,000	5,000	6,000
Plus Purchases - Freight	10,000	14,000	16,000
Minus Ending Inventory	5,000	6,000	7,000
Total Cost of Goods Sold	9,000	13,000	15,000
GROSS PROFIT (MARGIN)	12,000	15,000	16,500
Less: Selling Expenses:			
Sales Force Payroil	2,500	3,500	4,000
Commissions		500	750
Advertising	3,000	2,500	2,000
Operating Expenses:			
Utilities	900	1,400	1,650
Rent	3,600	4,000	4,250
Other	600	600	600
Total Expenses	10,600	12,500	13,250
NET PROFIT BEFORE TAXES	1,400	2,500	3,250
Less Income Taxes		===	250
NET PROFIT AFTER TAXES	1,400	2,500	3,000
Average Inventory Turnover	5.0	5.45	5.23
Average Markup or Margin (%)	53.3%	53.5 %	48.5 %
NET PROFIT AS % OF SALES	6.6%	8.3 %	9.5 %
NET PROFIT AFTER TAXES AS % OF OWNER'S EQUITY	10.4%	36.2 %	33.7 %

ERIC
Full Text Provided by ERIC

 $\frac{\vdash_{t \leftarrow i}}{t}$

the business appears to be prospering, as the owner's original investment has now increased to \$11,900 from \$6,000. This reflects the profits from three years of operation. In Exhibit L, note that first year sales are estimated to be \$22,500, with increased to \$30,000 in the second year, and \$34,000 in the third year. This projected income statement is very important.

Since the gift store business has a relatively high markup (over 50%) it will probably have a low inventory turnover rate. High markup businesses are usually characterized by low turnover of inventory. Average inventory turnover is computed by using this formula:

Since the average inventory for the year is \$4,500, based on annual sales of \$22,500, the inventory is turning over or being replaced on the average of only five times a year.

Barnes prepared this projection knowing that most businesses characterized by low inventory turnover are often plaged by inventory obsolescence due to style or fad changes. Since the business is a gift store, the accountant advised Jones to keep this in mind when planning inventory. "Stock those items which may decline in value below the cost paid for them at a minimum. Since one of your objectives in financial planning is control over the amount of debt and its relationship with the total assets of the business," Barnes advised, "the important of arriving at both the current ratio and debt to net worth ratios quickly

cannot be underestimated."

Exhibit K shows that at the end of the second year, the business has expanded somewhat since assets now total \$12,100. The current ratio has improved since first-year profits of \$1,400 have been put back into the business as inventory and accounts receivable are being carried.

As the meeting ended, Barnes discussed Exhibit L. "This projected profit and loss statement shows estimates for your business for the first three years of operation. By making a detailed projection of what you hope your profits will be in the near future, you have set definite attainable goals. However, that the projection of profit and loss is not something that is chiseled in marble. By their very nature, goals require change. One of the most common mistakes you can make in financial planning is to anticipate a greater sales volume than can be achieved. You can compound the error by overstating the margin or markup percentage.

"As you can see, some very important financial information can be obtained from the projected profit and loss star ment. Many meaningful comparisons, in addition to regular assessments, should be made. When you make assessments, be sure that the net income for the period should be stated as a realistic, attainable goal."

Jones was pleased with the accountant's work and resolved to follow her advice. She watched inventory turnover closely. By doing so she learned which items were vulnerable to obsolescence



and fashion changes. She also computed average markup or margin. This figure, expressed as a percentage, is the dollar amount of the markup on sales before selling expenses. Jones knew that if this percentage remained high, other selling and general expenses would be less likely to make the business unprofitable. Exhibit L shows that over the three-year period, there is a slight decrease in this percentage (from 53.3% to 48.5%). Sales volume increases, and other expenses decrease proportionately. As a result net profit from the business increases. As previously mentioned, this particular business is characterized by an above average markup. In many types of retailing, the figure would be only 25% to 35%.

Jones computed her net profit after taxes as a percentage of equity. By doing this, she learned how much her investment was making. She decided that if this rate of return were ever to drop to a point where she questioned her reasons for being in her business, she would ask Sharon Barnes to conduct another detailed and careful analysis of the profit and loss items.

Visualizing Financial Information

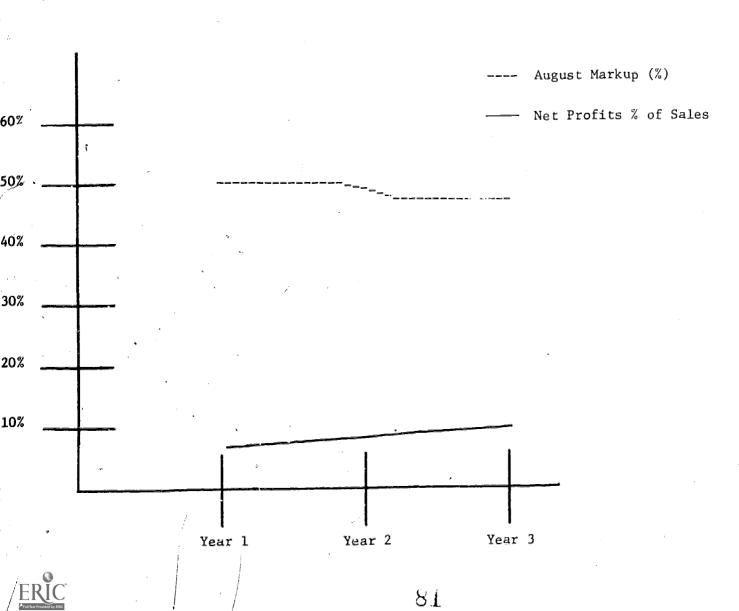
CAN INFORMATION
ON FINANCIAL
STATEMENTS BE
VISUALIZED?

Many times it is difficult to visualize or fully understand the trends which are predicted in projected balance sheets and profit and loss statements. Graphs can be drawn which can relate the significance of these trends. For example, a graph can reflect the projected margin percentage and the anticipated percentage of net profits to sales. Exhibit M graphically shows the same



Jones Gift Shop

Bottom Line Graph



percentages that were stated in Exhibit L.

Using graphs to help analyze your business finances might be a helpful technique. You may even want to retain your original projections on a graph and, as you make changes in your balance sheet and profit and loss statement, show these changes using a different symbol. As Exhibit L shows, the percentage of sales continues to increase even though margin or markup declines somewhat. This usually can be attributed to an increase in sales volume and control over expenses of the operation.

BREAK-EVEN ANALYSIS

WHAT DOES BREAKEVEN ANALYSIS
TELL?

Profits made from the sale of your firm's goods and services are the "bread and butter" of your business. Profit levels are determined by the volume of business and the selling price established versus actual costs. One management tool that determines the "right" profit level for your firm is break-even analysis.

Break-Even Point

WHAT IS THE

BREAK-EVEN

POINT?

Computing the break-even point is one technique available to determine when your business will begin to make a profit. The break-even point tells you how much business your firm will need to do to break even, that is, to operate with neither a profit nor a loss.

To determine the break-even point, you must first determine costs, variable costs, and semivariable costs. Once all costs have been calculate, the following formula can be used to determine the break-even point (volume of business):



ď.

For example, assume that your total fixed costs are \$15,000, and you are selling a product for \$100 a unit and the variable cost—unit is \$25.

In order to break even, you need to sell 200 units.

Break-even point
$$= \frac{\$15,000}{\$100 - \$25} = 200 \text{ units}$$

Thus, if you sell less than 200 units at these costs, you will have a loss. Of course, you will want to do better than break even. If you want to make a profit, you will have to sell more than 200 units at these costs.

Break-Even Components

WHAT ARE Since break-even analysis described the point where income equals total costs, the first two items to be calculated are the fixed and BREAK-**EVEN** variable costs. Fixed costs do not vary with the level of business activity. Examples include administrative salaries, property Insurance, COMPO-NENTS? depreciation of equipment, and rent. Variable costs vary directly with the volume of activity. Direct labor and materials are examples. They double if production doubles, and drop to zero if production is zero. Semivariable costs change with the level of business activity, but not in direct proportion. Office equipment or supervisors' salaries might be examples of semivariable costs. Such costs are usually about the same regardless of the level of output.



Comparing Relationships of Costs to Profits

WHAT INFOR
Break-even analysis can also help you compare the relationships

MATION of cost to profits at different volumes of sales. You can use break
IS even analysis to determine the profitability of different items in a line

OBTATIED? of products that you sell. It can answer such questions as: Which items

are most profitable? Which are least profitable? Have any items passed

their popularity peaks? Have they shown decreasing profits? How many

units of the new product will need to be sold before it will begin to bring

in a profit?

It is possible to represent visually the relationship of comprofits at different sales volumes; this is done with a break-even chart. Exhibit N is a break-even chart which not only shows the break-even point, but also shows profits and losses for other volumes of sales. It is based on information for a manufacturing company with costs for one of its products figured as:

- . Total fixed costs \$100,000
- . Variable costs \$50 per unit
- . Selling price \$100 per unit.

Exhibit N shows that profits depend on the number of units sold only when the price and cost patterns do not change. Each of the factors that affect profit can be varied. Knowledge in financial managment would tell you that if you could find a way to reduce fixed costs you would be able to lower the break-even point. Or, you could reduce variable costs, which would affect the total cost line, causing it to rise less rapidly. You could also raise or lower prices. An increase in price would lower the



break-even point again. The situation is similar to the inventor who said that if he could only sell one of his inventions for \$500,000, he would make a tidy profit.

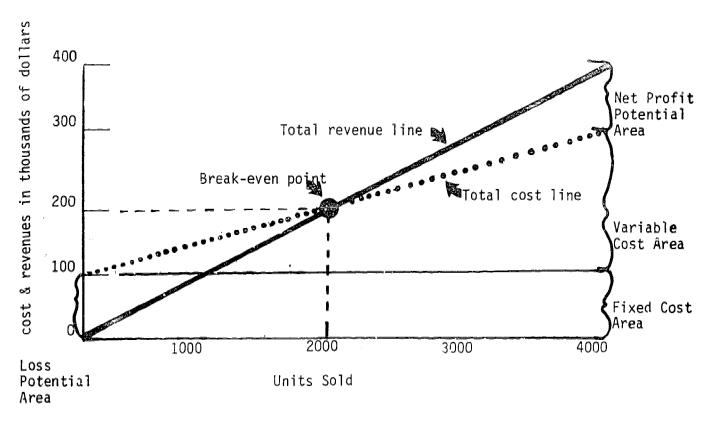
Analysis of Exhibit N will show the following about the break-even point:

- . The larger the <u>loss area</u> the greater the down side risk
- . The larger the <u>profit area</u> the greater the up side potential or the opportunity
- . The larger the <u>fixed costs</u> the higher the risk (increases loss area)
- . The larger the proportion of variable costs the higher the risk (increases loss area and decreases profit area).

EXHIBIT :

Break-Even Volume

(Fixed costs, \$100,000; variable costs, \$50 per unit; selling price, \$100 per unit)



Adapted from Small Business Administration, <u>A Handbook of Small Business</u> Finance. (pp.31-36)



Minimizing Busine's Risks

CAN BREAK-EVEN
ANALYSIS HELP

REDUCE RISKS?

The break-even point helps measure the risk of the business venture. The following strategies will help you utilize break-even analysis to reduce risk and unwise investments:

- 1. Phase in fixed costs of possible. Do not set your initial business goals at \$50,000 per month unless you are really sure that such a projection is reasonably accurate.
- 2. Allow fixed costs to grow only as the business can afford it. Do without some of the expenses in the beginning. For example, start the firm in your home or in someone else's unused facilities.
- Do not convert variable costs to fixed costs by hiring staff before sales. Reduced losses in the beginning decrease investment and, therefore, conserve equity for the entrepreneur.
- Contract for early production if necessary, based on profitable trends.



PREPARATION/ADAPTATION ACTIVITIES

Are you able to apply these principles to your business aspirations? Are you now more knowledgeable about the functions of financial management? The following activities should help you check your knowledge.

ASSESSMENT ONE

- 1. How does the change in owner's equity statement differ from the profit and loss statement?
- 2a. The following list contains fixed and variable costs for a service business. Define fixed and variable costs and label each cost as fixed or variable.
 - 1. Office space
 - 2. Secretarial service
 - Accounting/bookkeeping
 - 4. Legal
 - 5. Advertising
 - 6. Donations
 - 7. Dues and subsci pt ins
 - 8. Insurance (Office s)
 - 9. Interest
 - 10. Office supplies
 - 11. Postage
 - 12. Travel/end "pinment
 - 13. Telephone
 - 14. Taxes
 - 15. Executive salaries
 - 16. Direct labor
 - 17. Employee benefits
 - 18. Utilities
- b. These are additional costs associated with manufacturing.
 Label these are as fixed or variable.



- Materials
- Depreciation (of equipment)
- 3. Production supplies
- 4. Maintenance and repair
- 5. Utilities (additional)
- 6. Freight
- 3. Use information from Exhibit O below and the appropriate formula to calculate three break-even joints for a hypothetical service business. This is a very modest one-person office and the costs are three times the manager's salary. Determine your own prices. What fixed costs might be reduced? Remember that a common error of those starting a business is to "forget" certain costs--usually the fixed expenses.

SOME TYFICAL MONTHLY COSTS FOR A HYPOTHETICAL SERVICE POSINESS

Fixed Expenses	
Office space (900-2300 sq. ft'	\$ 400
Accounting (quarte ly tan' ments, tax returns)	50
Telephone/answering service	125
Secretarial service (hal ime)	250
Furniture - lease [little or no cash down)	225
Office supplies	10
Dues and subscriptions	10
Executive salary	750
Travel/entertainment	15C
Insurance (for the key person)	100
Advertising	150
Postage	20
	\$2230
Variable Expenses (assume professional labor)	
Direct Labor	\$ 750
Employee benefits (20%)	150
	\$ 900

- 4. Describe the nature and value of a projected profit and loss statement for individuals planning to start a new business.
- 5. Invite an accountant who has worked with small business owners to meet with your group and talk about the need for financial management and the mistakes new owners often make.

POSTASSESSMENT

- 1. .ow are balance sheets and profit and loss statements used in financial management?
- Discuss current ratio and acid-test ratio in detail. In your discussion include the formulas used to compute each.
- Develop an outline identifying the components of a change in owner's equity statement.
- 4. Draw a break-even point graph. Be sure to label each component. Explain the drawing carefully.
- 5. Describe the similarities and difference between financial ratios and financial statements.

Compare your answers to your responses to the preassessment.

You may want to check your postassessment answers with your instructor.



SELF-EVALUATION

How well did you know the information needed to do the activities?

() Very well() Fairly well

() A little

Be honest with yourself. If you feel you don't know the material well enough, it might be helpful to review this section before going on.



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FILM

EXPLORATION LEVEL:

"The Heartbeat of Business" (14 min., sd., color, 16mm).

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Emphasizes the importance of financial management. Throusonversations between the two major characters and by flashbacks of certain episodes in their business affairs, examples of good--and bad--financial management are dramatized.

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PACE A Program for Acquiring Competence in Entrepreneurship

Instructor's Guide

Being An Entrepreneur

Unit B

Financial Management



USING THE INSTRUCTOR'S GUIDE

The Instructor's Guide contains the following:

- Teaching/Learning Objectives (identical to the Teaching/ Learning Objectives found in the PACE unit)
- Teaching/Learning Delivery Suggestions
- Pre/postassessment Suggested mesponses

This information is geared towards the three levels of learning, and is designed for use as a supplemental teaching aid. Additional instructions for using PACE, sources of information, and an annotated glossary can be found in the PACE



PRE/POSTASSESSMENT SUGGESTED RESPUNSES

EXPOSTIRE

- 1. A balance sheet is a financial statement that tells what you own and what you owe at any particular date in time.
- A proof and first statement contains (a) costs of goods sold, (b) total sales, (c) gross profit,
 (d) expenses, (e) net profit.
- 3. Each ratio provides distinct information about the financial condition of a business venture. Ratios provide means for comparing the present state of the venture to previous states and to conditions of similar ventures.
- 4. The break-even point tells the entrepreneur the volume of business he or she must do to cover the cost of being in business. The business should generate profits above this point.
- 5. Cost of goods sold and net profit are components of the balance sheet. Cost of goods sold is beginning inventory plus purchases and minus ending inventory. It is the amount that it costs to produce or buy the goods sold by a firm. Net profit is gross profit less expenses.

EXPLORATION

- 1. While a balance sheet is a statement of the financial condition of a firm on a specific date, the profit and loss statement is a statement of the financial condition of a firm over a specific period of time.
- 2. Assets are balance sheet entries that list what a firm owns. Assets can be current, such as cash, merchandise, accounts receivable, etc.; fixed, such as land, building, equinment, etc.; intangible, such as goodwill, patients, etc.; and also include such things as the bash value of life insurance. Assets are categorized according to the length of time it takes to convert them into cash. Liabilities are balance sheet entries that show what a firm owns. Current liabilities are debts that come due within twelve months. Noncurrent or long-term liabilities are debts that will mature in twelve months or more.
- 3. Financial management is a function performed to assess and control the financial condition of the firm, and to maintain a proper balance between amounts owned and amounts owed.
- 4. The current ratio measures the firm's ability to meet current debts that will mature within tweive months. A good current ratio is 2:1 and can be computed using this formula:

Current ratio =
$$\frac{\text{Current assets}}{\text{Current liabilities}}$$

The average collection rate slips owner-manager determine whether the average collection period for accounts payable is too long. Calculating this ratio is a two-step process. Here is the formula:



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Step 2: Accounts receivable

Average sales each day = Days involved in collecting accounts receivable

 Break-even volume is the volume of business a firm must generate to cover the cost of being in operation. Volume above break-even volume generates profits.

PREPARATION/ADAPTATION

- 1. Balance sheets and profit and loss statements are used to monitor and control financial conditions of the firm.
- 2. Current ratio measures current assets against liabilities. It measures the firm's ability to meet current debts with current assets.

Acid-test ratio measures the debt-paying ability of a business. This figure should be 1:1. This ratio will show if a firm has enough cash and accounts receivable to pay all current liabilities at any given time.

- 3. Entries in the outline should include those significant items that change the net worth or the amount of capital or funds invested by the owner in the business.
- 4. The break-even chart should include a break-even point, and should show profits and losses for various volumes of sales. Net profit, fixed costs, variable costs, and potential net profit and loss areas should be labeled.
- 5. Financial statements and ratios are similar in that they are both helpful in financial management and provide a basis for financial analysis. Financial ratios, however, are computed using information gathered from financial statements. Ratios make it possible to compare the company's performance with the average performance of similar businesses. Financial statements compare and examine relationships among items in the past, while ratios provide clues regarding future problems and opportunities.



] .		TEACHING/LEARNING OBJECTIVES	TEACHING/LEARNING DELIVERY SUGGESTIONS
		Upon completion of this level of instruction you should be able to:	A variety of different teaching/learning methodologies have been used. To help you organize your work and plan the use of this level these suggestions are made:
LEVELS OF LEARNING	Exposure	 Describe a balance sheet. List the components of a profit and loss statement. Describe the importance of ratio analysis. Explain what is meant by the break-even point. 	 Interview local small business owners concerning the usage of financial statements. Invite a member of a trade association to meet with the group to discuss the importance of ratio analysis. Obtain examples of financial statements from local banks and accounting firms.
	Exploration	 Describe the difference between a balance sheet and a profit and loss statement. Differentiate between current and fixed assets. Describe and compute four commonly used business ratios. Describe the use of the break-even point and write the formula for computing it. Discuss the importance of financial management as it relates to making a profit. 	1. Invite a local banker or accountant to discuss the various aspects of financial management. 2. Check "Sources to Consult for Further Information" in this unit for resources which identify operating ratios for various types of businesses.
	Preparation/Adaptation	 Prepare a balance sheet and a profit and loss statement. Describe the information provided by financial ratios. Analyze the profit and loss statement and the balance sheet of a new business. List the reasons for preparing graphs of financial data. Prepare a change in owner's equity statement. Use break-even analysis to determine the relationship between costs and profits. 	Have an accountant speak with the group on conducting financial analyses.
EDIO			

The PACE series consists of these parts and units.

PART I: GETTING READY TO BECOME AN ENTREPRENEUR

Unit A: Nature of Small Business

Unit B: Are You an Entrepreneur?

Unit C: How to Succeed and How to Fail

PART II: BECOMING AN ENTREPRENEUR

Unit A: Developing the Business Plan

Unit B: Where to Locate the Business

Unit C: Legal Issues and Small Business

Unit D: Government Regulations and Small Business

Unit E: Choosing the Type of Ownership

Unit F: How to Finance the Business

Unit G: Resources for Managerial Assistance

PART III: BEING AN ENTREPRENEUR

Unit A: Managing the Business

Unit B: Financial Management

Unit C: Keeping the Business Records

Unit D: Marketing Management

Unit E: Successful Selling

Unit F: Managing Human Resources

Unit G: Community Relations

Unit H: Business Protection

RESOURCE GUIDE