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2nd Edition

# Cost Accounting

for  
**dummies**<sup>®</sup>  
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Get to know the cost accounting fundamentals

Learn the difference between fixed and variable overhead

Get a grip on the most valuable field of accounting

**Ken Boyd**

Accounting expert, writer, speaker, and struggling guitar player



# Cost Accounting

2nd Edition

by Ken Boyd

**for  
dummies**  
A Wiley Brand

## **Cost Accounting For Dummies® 2nd Edition**

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## Table of Contents

[Cover](#)

[Title Page](#)

[Copyright](#)

[Introduction](#)

[About This Book](#)

[Foolish Assumptions](#)

[Icons Used in This Book](#)

[Beyond the Book](#)

[Where to Go from Here](#)

[\*\*Part 1: Understanding the Fundamentals of Costs\*\*](#)

[\*\*Chapter 1: So You Want to Know about Cost Accounting\*\*](#)

[Comparing Accounting Methods](#)

[Using Cost Accounting to Your Advantage](#)

## **Chapter 2: Brushing Up on Cost Accounting Basics**

[Understanding the Big Four Terms](#)

[Covering Costs in Different Industries](#)

[Why Are You Spending? Cost Drivers](#)

[Following the Rules of the Cost Accounting Road](#)

## **Chapter 3: Using Cost-Volume-Profit Analysis to Plan Your Business Results**

[Understanding How Cost-Volume-Profit Analysis Works](#)

[Using Cost-Volume-Profit Analysis to Make Savvy Business Decisions](#)

[The Tax Man Cometh, the Profits Goeth](#)

## **Chapter 4: Estimating Costs with Job Costing**

[Understanding How Job Costing Works](#)

[Taking a Closer Look at Indirect Costs using Normal Costing](#)

[Following the Flow of Costs through a Manufacturing System](#)

## **Chapter 5: More Activity, More Cost: Activity-Based Costing**

[Avoiding the Slippery Peanut Butter Costing Slope](#)

[Designing an Activity-Based Costing System](#)

[Using Activity-Based Costing to Compute Total Cost, Profit, and Sale Price](#)

[Implementing ABC Costing for a Business Pivot](#)

[Using ABC Costing for a New Business Model](#)

## **Part 2: Planning and Control**

## **Chapter 6: What's the Plan, Stan? Budgeting for a Better Bottom Line**

[Brushing Up on Budgeting Basics](#)

[Planning How to Plan: Factors That Impact Your Budgeting Process](#)

[The Nuts and Bolts \(and Washers\) of Budgeting](#)

[Budgeting with Cash Accounting or Accrual Accounting](#)  
[Budgeting to Produce the Income Statement and Balance Sheet](#)

## **Chapter 7: Constant Change: Variance Analysis**

[Variance Analysis and Budgeting](#)  
[Analyzing in Material Price and Efficiency Variances](#)  
[Using Your Findings to Make Decisions](#)

## **Chapter 8: Focusing on Overhead Costs**

[Using Cost Allocation to Minimize Overhead](#)  
[Paying for the Security Guard: Fixed Overhead Costs](#)  
[Those Vexing Variable Manufacturing Costs](#)

## **Chapter 9: What's on the Shelf? Inventory Costing**

[Working with Inventoriable Costs](#)  
[Costing Methods for Inventory](#)  
[Using Variable and Absorption Costing to Allocate Fixed Manufacturing Costs](#)  
[Relating Capacity Issues to Inventory](#)

## **Part 3: Making Decisions**

### **Chapter 10: Cost Drivers and Cost Estimation Methods**

[Working with Cost Behavior](#)  
[Considering Cost Estimation Methods](#)  
[Exploring Nonlinear Cost Functions](#)  
[Assessing the Impact of Learning Curves](#)  
[Considering how AI and Data Analytics Impact Learning Curves](#)

### **Chapter 11: Making Smart Business Decisions with Relevant Information**

[Navigating the Geography of Relevance](#)  
[Special Orders Don't Upset Us, Do They?](#)  
[Deciding between Outsourcing and In-house Production](#)



[Maximizing Profit When Capacity Is Limited](#)

## **Chapter 12: Making Smart Pricing Decisions: Figuring Total Costs**

[Understanding Influences on Prices](#)

[Pricing for Profits Down the Road](#)

[Arriving at a Reasonable Profit](#)

## **Part 4: Allocating Costs and Resources**

### **Chapter 13: Analysis Methods to Improve Profitability**

[Processing Cost Allocation](#)

[Implementing Cost Allocation](#)

[Going Over Sales Mix and Sales Quantity Variances](#)

### **Chapter 14: Behind the Scenes: Accounting for Support Costs and Common Costs**

[Not Everyone Generates Revenue: Support Costs](#)

[Going Over Variance Analysis and Department Costs](#)

[Focusing on Common Costs](#)

[Making a Commitment: Contracts](#)

### **Chapter 15: Joint Costs, Separable Costs, and Using Up the Leftovers**

[Working with Joint Costs](#)

[Continuing Production: Computing Separable Costs After Splitoff](#)

[Choosing a Joint Cost Allocation Method](#)

[Holding a Garage Sale: Making the Most of Byproducts](#)

### **Chapter 16: Tracing Similar Products with Process Costing**

[Process Costing: Presenting the Basic Approach](#)

[Sitting on the Factory Floor: Dealing with Work in Process](#)

[Using Equivalent Units to Compare Apples to Apples](#)

[Using the Weighted Average Method for Process Costing](#)

[Introducing the First In, First Out Method of Process Costing](#)

[Comparing Processing Costing Methods](#)

## **Part 5: Considering Quality Issues**

### **Chapter 17: What a Waste! Getting the Most from Spoilage, Scrap, and Reworked Products**

[Accounting for Waste](#)

[Applying Process Costing Methods to Spoilage](#)

[Job Costing for Spoilage, Reworked Products, and Scrap](#)

### **Chapter 18: Making Smart Ordering Decisions**

[Considering the Costs of Inventory](#)

[Calculating Inventory Quantity with the Economic Order Quantity Formula](#)

[Figuring a Favorable Reorder Point](#)

[Evaluating Prediction Error](#)

[Practicing Just-In-Time Purchasing](#)

[SCM and Customer Demand Issues](#)

### **Chapter 19: Quality: Building a Better Mousetrap**

[Considering Quality Benefits and Costs](#)

[Compiling a Cost of Quality Report](#)

[Putting Quality Practices in Place](#)

[Customer Satisfaction: Measuring and Improving It](#)

[Doing More in Less Time](#)

[Eliminating the Constraint of the Bottleneck](#)

## **Part 6: The Part of Tens**

### **Chapter 20: Ten Common Costing Mistakes and How to Avoid Them**

[Pricing a Product Incorrectly](#)

[Listing Fixed Costs As Variable Costs](#)

[Labeling Period Costs As Product Costs](#)

[Misusing Target Net Income](#)

[Forgetting About Taxes](#)

[Assigning Costs to the Wrong Product](#)

[Not Reviewing Variances Correctly](#)

[Redlining: Pushing Production Activity Above Relevant Range](#)

[Ignoring the Timing of Costs](#)

[Not Implementing Activity-Based Costing](#)

## **Chapter 21: Ten Ways to Increase Profits Using Costing**

[Selling More Of The Right Products](#)

[Implementing Sales Mix Analysis to Increase Total Profits](#)

[Building a Higher Margin of Safety](#)

[Deciding How Much You Need: Production and Scheduling Issues](#)

[Who Does What: Handling Costs and Employee Issues](#)

[Reducing and Managing Scrap](#)

[Moving It off the Shelf: Inventory Issues](#)

[Effectively Taking Special Orders](#)

[Making Accurate Cost Allocations](#)

[Addressing the Issue of Spoilage](#)

**Index**

**About the Author**

**Connect with Dummies**

**End User License Agreement**

# **List of Tables**

## **Chapter 2**

[TABLE 2-1: Fixed and Variable Costs](#)

[TABLE 2-2: Fixed and Variable Costs, Direct and Indirect Costs — Examples](#)

## **Chapter 4**

[TABLE 4-1 Job Cost Sheet — Johnson Fence Job](#)

[TABLE 4-2 Normal Job Cost Sheet — Landscaping Job](#)

[TABLE 4-3 Control Accounts for Inventory](#)

## **Chapter 5**

[TABLE 5-1 Order Manager — Monthly Hours Per Customer](#)

[TABLE 5-2 Windshield Direct Costs](#)

[TABLE 5-3 Indirect Cost Activities — Windshield Production and Installation](#)

[TABLE 5-4 Cost Allocation Rates](#)

[TABLE 5-5 Cost Allocation as a Percentage of Total Hours](#)

[TABLE 5-6 Total Costs By Type — Sedan and Van Windshields](#)

[TABLE 5-7 Flower Bed and Lawn Care Costs](#)

[TABLE 5-8 Costs and Profit by Product — Flower Bed and Lawn Care](#)

[TABLE 5-9 Activity-Based Costing by Product — Flower Bed and Lawn Care](#)

[TABLE 5-10 Calculating a New Sale Price for Flower Beds](#)

## **Chapter 6**

[TABLE 6-1 Garage Door Production Budget](#)

[TABLE 6-2 Garage Door Cost of Goods Sold Budget](#)

[TABLE 6-3 Gift Shop Cash Budget — Month of March](#)

[TABLE 6-4 Gift Shop Budgeted Statement of Cash Flows](#)

[TABLE 6-5 Budgeted Balance Sheet](#)

[TABLE 6-6 Budgeted Income Statement](#)

## **Chapter 7**

[TABLE 7-1 Toy Manufacturer — Static Budget](#)

[TABLE 7-2 Toy Manufacturer — Actual Results](#)

[TABLE 7-3 Toy Manufacturer — Static Budget Variance](#)

[TABLE 7-4 Toy Manufacturer — Revenue and Cost Variance](#)

[TABLE 7-5 Toy Manufacturer — Sales Volume Variance](#)

[TABLE 7-6 Material Price Variance — Aluminum for Bikes](#)

[TABLE 7-7 Material Efficiency Variance — Aluminum for Bikes](#)

[TABLE 7-8 Labor Price Variance — Labor Hours for Lamps](#)

[TABLE 7-9 Labor Efficiency Variance — Labor Hours for Lamps](#)

[TABLE 7-10 Glass Bottles — Labor Cost Allocation by Batch](#)

[TABLE 7-11 Glass Bottles — Flexible Budget Calculation](#)

[TABLE 7-12 Glass Bottles — Labor Price Variance](#)

[TABLE 7-13 Glass Bottles — Labor Efficiency Variance](#)

## **Chapter 8**

[TABLE 8-1 Budgeted Fixed Overhead — Applied to Actual Output](#)

[TABLE 8-2 Budgeted Variable Overhead — Applied to Actual Output](#)

## **Chapter 9**

[TABLE 9-1 Rubber Mallet — Inventory Purchases and Sales](#)

[TABLE 9-2 FIFO Method — Cost of Sales](#)

[TABLE 9-3 LIFO Method — Cost of Sales](#)

[TABLE 9-4 Profit on 100 Units Sold — FIFO and LIFO](#)

[TABLE 9-5 Profit on 225 Units Sold — FIFO and LIFO](#)

[TABLE 9-6: Total Profit- FIFO and LIFO](#)

[TABLE 9-7 Year 1 Production — Sales and Costs](#)

[TABLE 9-8: Year 1 Profit — Variable Versus Absorption Costing](#)

[TABLE 9-9 Year 2 Production — Sales and Costs](#)

[TABLE 9-10 Year 2 Profit — Variable Versus Absorption Costing](#)

## **Chapter 11**

[TABLE 11-1 Machine Purchase Decision — Comparison](#)

[TABLE 11-2 Towel Company — Before Special Order](#)

[TABLE 11-3 Towel Company — Special-Order Proposal](#)

[TABLE 11-4 “Make” Decision - Continue Production](#)

[TABLE 11-5 “Buy” Decision — Outsource Production](#)

[TABLE 11-6 Closing a Division — Financial Impact](#)

[TABLE 11-7 Carrying Cost Decision — Candle Purchases](#)

[TABLE 11-8 Product Mix — Contribution Margin Per Hour](#)

[TABLE 11-9 Product Mix — Actual Production](#)

## **Chapter 12**

[TABLE 12-1 Baseball Glove Company — Before Special Order](#)

[TABLE 12-2 Baseball Glove Company — After Special Order](#)

[TABLE 12-3 Lawn Mower Company — Target Price and Target Cost](#)

## **Chapter 13**

[TABLE 13-1 Cost Hierarchies and Cost Allocation Bases](#)

[TABLE 13-2 Income Statement — No Division Allocation](#)

[TABLE 13-3 Catering Business — Isolated Costs and Activities](#)

[TABLE 13-4 Catering Business — December Profit by Client](#)

[TABLE 13-5 Budgeted Contribution Margin in Dollars](#)

[TABLE 13-6 Actual Contribution Margin in Dollars](#)

[TABLE 13-7 Sales Mix Variance](#)

[TABLE 13-8 Sales Quantity Variance](#)

## **Chapter 14**

[TABLE 14-1 IT Department — Budgeted Cost Pool](#)

[TABLE 14-2 IT Department — Applied Cost Pool](#)

[TABLE 14-3 Dual Rate Allocation — Total Budgeted Fixed Cost](#)

[TABLE 14-4 Dual Rate Allocation — Total Variable Cost](#)

[TABLE 14-5 Marketing Support — Budgeted Cost Pool](#)

[TABLE 14-6 Marketing Support — Budget with Practical Capacity](#)

[TABLE 14-7 Shipping Department — Fixed Cost Allocation,  
Previous Year](#)

[TABLE 14-8 Fixed Cost Allocation — Current Year \(1,200 Actual  
Commercial Hours\)](#)

[TABLE 14-9 Direct Cost Allocation Example](#)

[TABLE 14-10 Step-down Allocation Example](#)

[TABLE 14-11 Stand-alone Cost Allocation Method](#)

## **Chapter 15**

[TABLE 15-1 Joint Cost — Relative Sales Value at Splitoff](#)

[TABLE 15-2 Joint Cost — Physical Measure at Splitoff](#)

[TABLE 15-3 Joint Cost — Net Realizable Value Calculation](#)

[TABLE 15-4 Joint Cost — NRV Cost Calculation](#)

[TABLE 15-5 Goods Available For Sale by Product](#)

[TABLE 15-6 Joint Cost Allocation](#)

[TABLE 15-7 Verifying Gross Margin Percentage](#)

[TABLE 15-8 Cost Allocation — Less Heavy Duty Separable Costs](#)

## **Chapter 16**

[TABLE 16-1 Equivalent Units — Physical Flow of Units \(April\)](#)

[TABLE 16-2 Candy — Physical Flow of Units \(September\)](#)

[TABLE 16-3 Equivalent Units of Production](#)

[TABLE 16-4 Assignment of Costs](#)

[TABLE 16-5 Shoe Company Physical Flow of Units \(November\)](#)

[TABLE 16-6 Shoe Company — Equivalent Units of Production](#)

[TABLE 16-7 Shoe Company — Cost Per Equivalent Unit](#)

[TABLE 16-8 Shoe Company — Assignment of Costs](#)

[TABLE 16-9 Tie Company — Cost Assigned to January Ending WIP \(100 Physical Units...](#)

[TABLE 16-10 Tie Company — Physical Flow of Units \(February\)](#)

[TABLE 16-11 Tie Company — Equivalent Units of Production](#)

[TABLE 16-12 Tie Company — Cost Per Equivalent Unit](#)

[TABLE 16-13 Tie Company — Assignment of Costs](#)

[TABLE 16-14 FIFO Method — Physical Flow of Units \(February\)](#)

[TABLE 16-15 FIFO Method — Equivalent Units of Production](#)

## **Chapter 17**

[TABLE 17-1 Equivalent Units — Spoiled Units Included](#)

[TABLE 17-2 Equivalent Units — Spoiled Units Excluded](#)

[TABLE 17-3 Weighted Average — Physical Flow of Units \(May\)](#)

[TABLE 17-4 Weighted Average — Equivalent Units \(May\)](#)

[TABLE 17-5 FIFO — Physical Flow of Units \(May\)](#)

[TABLE 17-6 FIFO — Equivalent Units \(May\)](#)

## **Chapter 18**

[TABLE 18-1 Current Purchasing Costs versus JIT Purchasing Costs](#)

[TABLE 18-2 JIT Purchasing Costs with Stockouts and Returns](#)

# **List of Illustrations**

## **Chapter 4**

[FIGURE 4-1: The flow of manufacturing costs.](#)

## **Chapter 10**

[FIGURE 10-1: Linear function.](#)

[FIGURE 10-2: Slope co-efficient.](#)



# Introduction

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The world needs accountants. People who know how to do accounting make the business world go round. Accountants analyze and report on every aspect of a business.

Cost accounting can be the most difficult accounting topic to grasp. This area has a unique language — a set of terms that differ quite a bit from other areas of accounting. Students and business owners may find cost accounting more challenging than other areas of accounting.

I wrote *Cost Accounting For Dummies* because your ability to understand this material has a huge payoff. Every business can be improved using cost accounting. The concepts help you to lower costs and increase profits. I'm passionate about helping you learn more about these critical topics.

## ***About This Book***

Some cost accounting books overwhelm you with dozens of complex topics. Not *Cost Accounting For Dummies*. Here, I focus on the really important topics that are used the most often. Accounting knowledge is meaningful when you can *use* it to solve a problem.

As a friend of mine once said, “It’s hard to drink out of a fire hose,” so I present the material in this book in an easy-to-read reference format. The book is logically divided into parts. Each part contains several chapters that are divided into readable “chunks” or sections. This system avoids blasting you with information. Instead, topics are introduced at a steady (but not overwhelming)

rate, with concepts building on one another, making the reading (and understanding) easier.

The great thing about the book is that you decide where to start and what to read. It's a reference book. You can locate a topic in the table of contents or the index, read about it, and move on. Accountants love organization (most accountants place their pencils in order from shortest to longest). This book is organized to be a quick reference.

## ***Foolish Assumptions***

I had to make some assumptions about you, the reader. As I wrote the book, here's what I assumed:

- » You're someone who needs an easy-to-read overview of cost accounting. Also, you want to investigate the topics that are used the most often to solve problems. You may be reading this book while taking a cost accounting course, but a business owner who needs more cost accounting knowledge should also find value in reading it.
- » You're able to follow basic arithmetic and algebra. Many items you need to calculate appear in the form of equations. Accountants love to create an  $x$  or  $y$  variable and then solve for that variable, using an equation.
- » You have a beginner's-level knowledge of how a business works. You understand that sales less expenses equals profit. You're aware that a business needs to have capital (cash, equipment, and so forth) to operate.
- » You're willing to read, pause, and assess what you've read. Learning cost accounting takes some effort. It's

not the sort of thing you can rush through. Whereas the text makes it easy to find information, it takes some effort to understand what you read. After you get it, you can use cost accounting to improve your business for years to come.

## *Icons Used in This Book*

To make this book easier to read and simpler to use, I include some icons that can help you find and fathom key ideas and information.



**TIP**

This icon appears whenever an idea or item can help reinforce your understanding of a concept. A tip might make it easier to remember a topic.



**REMEMBER**

Any time you see this icon, you know the information that follows is so important that it's worth reading more than once.



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This icon flags information that's a big concern. Warnings critical to your business are tagged with this type of icon.



**TECHNICAL  
STUFF**

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these paragraphs. But come back at a later date and check them out. They'll be waiting for you.

## ***Beyond the Book***

In addition to the abundance of information and guidance related to cost accounting that we provide in this book, you get access to even more help and information online at [Dummies.com](http://Dummies.com). Check out this book's online Cheat Sheet. Just go to [www.dummies.com](http://www.dummies.com) and search for "Cost Accounting For Dummies Cheat Sheet."

## ***Where to Go from Here***

This book is organized so that you can go wherever you want to find complete information. Want to know about product pricing, for example? Head to [Chapter 12](#). If you've taken an accounting course or two, start at [Chapter 3](#) with cost-volume-profit. You can use the table of contents to find broad categories of information or use the index to look up more specific topics.

If you're not sure where you want to go, you may want to start with [Part 1](#). It gives you all the basic info you need to understand cost accounting and points to places where you can find more detailed information.

## **Part 1**

# **Understanding the Fundamentals of Costs**

## IN THIS PART ...

So you're ready to learn all there is to know about cost accounting. You've come to the right place! Part 1 introduces cost accounting terms as well as some basic methods of analysis.

You compare cost accounting to other accounting methods and learn four important cost terms: direct costs, indirect costs, fixed costs, and variable costs.

You also find out about product and period costs, cost-volume-profit (CVP) analysis, and job costing. Process costing and the flow of manufacturing is also looked at.

# Chapter 1

## So You Want to Know about Cost Accounting

---

### IN THIS CHAPTER

- » Understanding accounting methods
  - » Comparing cost accounting systems
  - » Controlling your costs
  - » Applying a price to your product
  - » Mulling over quality issues
- 

In a nutshell, *cost accounting* is the process of analyzing and planning what it costs to produce or supply a product or service. The analysis helps reduce costs — and possibly eliminate them. Lower costs, of course, allow for increased profits.

Business folks use cost accounting to determine the profitability of a product. The rule is simple: The price should cover the product cost and generate a profit. Competition may dictate the price charged for a product. In other instances, a profit is added to a product cost to create a unique price.

This chapter introduces cost accounting and how to compare and contrast cost accounting with other accounting methods. The chapter also explains how cost accounting can help you improve your business, such as by using pricing, budgeting, and other tools that can help you become more profitable.

# *Comparing Accounting Methods*

*Accounting* is the process of recording, reporting, and analyzing business transactions. It's the written record of a business. *Cost accounting* is the process of capturing all the costs of "production," whether a business manufactures products, delivers services, or sells retail items. Cost accounting is used for all types of businesses.

Often, cost accounting overlaps with other types of accounting, such as financial accounting and management accounting. If you have some knowledge about these other areas of accounting, that background can help you understand cost accounting. If not, no big deal. This section helps clarify what cost accounting is, how it's used, and how these accounting methods relate.

*Financial accounting* is a reporting process. An accountant reports on the financial position of a firm and the firm's performance by creating financial statements. The statements are mainly used by external (outside) parties to show how the company is doing. External parties include *shareholders*, *creditors*, and *regulators*.

The external parties may not have an accounting background, so there are many rules of the road (and they are very specific) for creating financial statements. The rules exist so that each set of financial statements is standardized. If all companies follow the same set of rules to create financial statements, the information is usually comparable.

Financial accounting looks backward. It's *retrospective*. The accountant is creating financial statements for



transactions that have already happened. So unlike cost accounting, financial accounting doesn't provide any planning or forecasting.

Your external users want financial statements on a periodic basis. Companies typically issue financial statements on a bi-annual, or annual basis. External users want to know how you're doing — for a variety of reasons.

## ***Considering your shareholders***

If you own a business, *shareholders* own shares of your company in the form of common stock. That also means that shareholders own *equity* in your business. You may pay them a share of company earnings as a *dividend*, or retain the earnings for use or investment in your business.

Shareholders are interested in seeing the value of the business increase. As your sales and earnings grow, your company is seen as more valuable. A shareholder reviews your financial statements to see if sales and earnings are increasing. If they are, your shareholder is happy — they may even buy more of your common stock.

As sales and earnings grow, other investors may be willing to pay a higher price for your common stock. An existing shareholder might then sell their investment in common stock for a gain.

## ***Mulling over creditors***

*Creditors* are lenders. They lend your company money so you can purchase assets, which help your business operate. Assets are defined as items you use to make money in your business, like machinery and equipment. You sign a loan agreement with a lender, and that agreement states the interest rate for the loan and when the loan payments are due. You pay *interest* on the loan

and also repay the original amount borrowed — the *principal* amount.

Instead of a bank loan, you can issue debt directly to the public by selling *bonds*. The bond certificate states the terms of the bond. That document lists the interest rate and the *maturity date*. The bond investor is repaid on the maturity date.

A creditor is interested in your ability to pay the interest and repay the loan. Like a shareholder, a creditor wants to see a company that generates earnings and an increasing level of sales. If you create earnings, you eventually collect more cash than you spend. That additional cash pays the principal and interest on the loan.

## ***Addressing concerns of regulators***

Nearly every business falls under some sort of regulation. *Regulators* protect the public by enforcing laws and regulations. Part of that process involves reviewing your financial statements.

In addition to the “standard” set of financial reports (covered later in the book), regulators may require extra information from you. This specialized reporting is required to address a specific regulation or law. For example, if you’re a food manufacturer, the Food and Drug Administration (FDA) requires you to disclose food ingredients on a food label. That’s a form of specialized reporting for a regulator.

## ***Using management accounting***

*Management accounting* is the process of creating accurate and timely reports for managers. Managers use the reports to make decisions. There are many theories and accepted practices in management accounting for developing reports. Ultimately, management accounting

uses the “whatever works” method to create reports. Any report that provides the best possible information to solve a problem is a good one.

Management accounting is an internal reporting process. The information you create isn’t shared with the outside world. So you can put together any type of report that’s helpful to you.



**TIP**

As an accountant, you may be in a situation in which management asks you to create lots of reports but doesn’t *use* them all. Ask management how a report you’re asked to create will be used. The manager might conclude that the report really isn’t necessary — which saves you time and energy.

Financial accounting looks backward. You report on past events. Management accounting is *forward-looking*. It’s *prospective*. You’re using the reports to make decisions about the future. For example, a decision whether to manufacture a product component or buy it from someone else is a typical management decision based on management accounting.



TIP

Every manager has a preferred set of management reports, the ones they consider the most useful. I had a conversation with the retired chief financial officer (CFO) of a worldwide defense contractor. Engineers, including all senior management, dominated the company. The former CFO told me that he was successful because he figured out which financial management reports the engineers wanted. In fact, that set of reports was standardized and used in every senior management meeting.

### ***Fitting in cost accounting***

Cost accounting is closer to management accounting than financial accounting. Cost accountants gather information to make decisions about the *future*. Also, cost reports are considered to be internal reports. Both of those traits apply to management accounting.

You see overlap between cost and management accounting. A good example is special orders. A *special order* is an order you take on when you have excess production capacity. A customer approaches you about producing an “extra” order — an order you weren’t expecting. You need to decide what price you will accept for the special order.

Management accounting instructs you to consider only the cost and revenues that *change*, based on your decision, called *differential* costs and revenues. That makes sense, because the method is forward-looking. Old, unchanging stuff generally doesn’t count.

Your price for the special order depends on the costs. Reports you generate about costs help you make the decision to accept or reject the special order. If you’re

producing cost reporting, that sounds like cost accounting to me. So you see how cost and management accounting can overlap. There's more on special orders later.

Cost accounting sometimes uses historical information to start the analytical process. For example, when you plan your costs for next year, you take a look at spending in past years. Spending in prior year provides a starting point for planning costs — a baseline. The baseline is adjusted for all the foreseeable changes that might occur in the New Year. That helps you decide whether your budgeted costs should be higher or lower.

## ***Using Cost Accounting to Your Advantage***

Cost accounting runs through your entire business process. To begin, you decide whether the cost of obtaining the information is worth the benefit you receive from it. If you decide that it is, you use cost accounting to analyze your costs, make decisions, and look for cost reductions in your business.

### ***Starting with cost-benefit analysis***

The cost of obtaining information should be lower than the benefit you receive from your analysis. The cost includes labor hours and technology costs. For example, you need someone to search for the information. You also may need to create new cost reports in using your technology. The benefit of performing the analysis is the cost savings you're able to implement.

Say you manufacture dining room tables; you make five different models of tables. At one point in production, your staff sands the wooden tabletops by hand.

Until now, you haven't calculated the time required to sand each type of table. You take the total labor costs for sanding and trace them to each table, regardless of the model. Maybe you should do a cost analysis and assign the sanding cost to each table model.

You incur some costs to do the analysis. Someone on your staff will go through the employee time cards (used for payroll). The workers record the time they spend on all tasks, including sanding. They also record the table models they worked on during production. Your accountant can compute the total sanding time per table model, based on the time cards.

Consider what you might gain. You assign the sanding cost more precisely. As a result, each table model's total cost is more accurate. Because your profit is the sale price less the total costs, the updated cost allows you to calculate a more precise profit. Sounds like the cost of the analysis might be worth it, especially if the competition is high in your furniture-making industry.

## ***Planning your work: Budgeting***

Cost accounting plays a role in your budgeting process. You might think of budgeting as just forecasting sales and planning expenses. If you own a flower shop, you budget by forecasting sales of each type of flower or arrangement. You also plan expenses, such as utility costs for the shop and your lease payment.

Your work with cost accounting takes budgeting to a new level of detail. Until now, you looked at costs by *type* (utilities, lease expense). Now, you analyze cost by *type* and by *product* (for example, those roses need to be kept in a cooler, which requires electricity). Based on the product's costs and sale price, you can compute a profit.