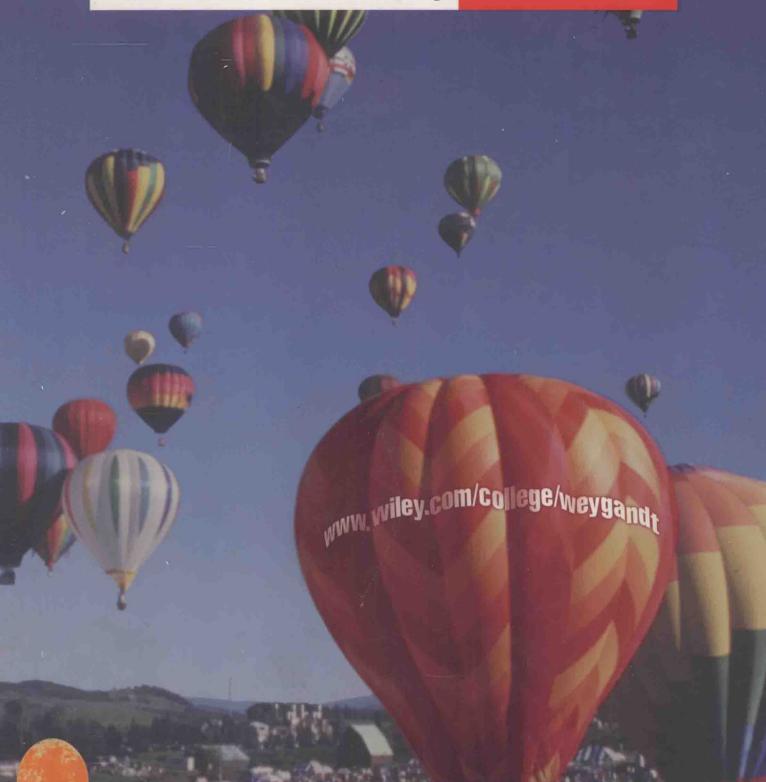
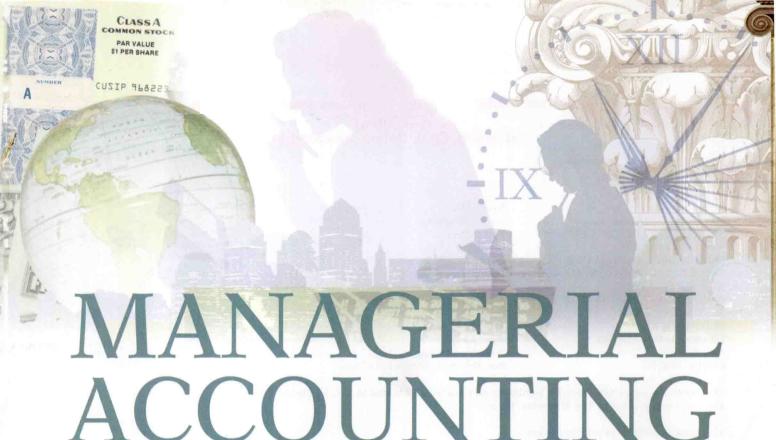


MANAGERIAL ACCOUNTING

Tools for Business Decision Making

Second Edition





Tools for Business Decision Making

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Dedicated to our former students and our colleagues, past and present and to our wives, Enid, Donna, and Merlynn

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WHERE DO YOU WANT TO GO?

- → Do you want the best learning experience you've ever had?
- → Do you want to leave this course with practical, bankable skills?
- → Do you want all the advantages you'll need to enter professional life?

If the answer is yes to any of the above, then this new Second Edition of MANAGERIAL ACCOUNTING will take you there!

WHY HOT AIR BALLOONS ON THE COVER?

The hot air balloons on the cover of the Second Edition represent an important idea—the quality of the journey is as important as the final destination.

A FAST CAR CAN ACCELERATE FROM ZERO TO SIXTY IN TEN SECONDS...

- ... leaving you painfully pressed against your seat. MANAGERIAL ACCOUNTING by contrast starts your journey with a gentle lift, presenting the fundamental concepts of managerial accounting in an easy-to-understand fashion:
- → Carefully-paced and stepped-out explanations break the difficult or complicated processes down into manageable, understandable steps
- → MANAGERIAL ACCOUNTING sticks to the concepts you need, providing a series of examples and frequent illustrations

ON A BUS OR TRAIN, YOU SIMPLY SIT THERE ...

- ... while in a hot air balloon, passengers often actively participate in the flight. MANAGERIAL ACCOUNTING provides you with continual opportunities for hands-on learning:
- A New Interactive CD will show you clearly how to study, what to study, and why you study. It includes interactive Self-Tests, Key Terms Matching Activities, a Writing Handbook, an Accounting Cycle Tutorial, and Career Information.
 - A New Companion Website includes problems from the text, Additional Demonstration Problems, Interactive Self- Study Questions, Exploring the Web Exercises and more

THE VIEW OUT THE WINDOW OF A CAR, A PLANE, OR A TRAIN CAN BE PRETTY LIMITED...

- ... but the view from a hot air balloon is 360 degrees of breathtaking scenery! Weygandt, Kieso, and Kimmel believe that it is vital that you see managerial accounting's relevance to your future career.
- → The authors use financial information and accounting practices of real companies like Starbucks, Microsoft, Ben & Jerry's, and Intel.
- → As you become acquainted with the financial successes and failures of these familiar companies, you can begin to follow business news more closely, making your learning a dynamic, ongoing process.
- → Many of the companies used as examples are service based, reflecting the shift toward service industries. This shift is emphasized by the Business Insight–Service Company Perspective feature.

◆ PLUS, YOU GET ALL THE ROADSIDE ASSISTANCE YOU NEED!

The Interactive CD and the website mentioned above will give you a world of backup and assistance as you go through the course. In addition, a Student Owner's Manual begins the text. This walk-through of the text will help you understand how the text works and how to use the various built-in learning tools you'll encounter. Plus, a variety of other helpful tools are available to you:

- → Solving Managerial Accounting Problems Using Excel
- → Solutions to Excel Problems
- → Checklist of Key Figure
- → Study Guide
- → Working Papers
- → Excel Working Papers

ABOUT THE AUTHORS

Jerry J. Weygandt, PhD, CPA, is Arthur Andersen Alumni Professor of Accounting at the University of Wisconsin-Madison. He holds a Ph.D. in accounting from the University of Illinois. Articles by Professor Weygandt have appeared in the Accounting Review, Journal of Accounting Research, Accounting Horizons, Journal of Accountancy, and other academic and professional journals. These articles have examined such financial reporting issues as accounting for price-level adjustments, pensions, convertible securities, stock option contracts, and interim reports. Professor Weygandt is author of other accounting and financial reporting books and is a member of the American Accounting Association, the American Institute of Certified Public Accountants, and the Wisconsin Society of Certified Public Accountants. He has served on numerous committees of the American Accounting Association and as a member of the editorial board of the Accounting Review; he also has served as President and Secretary-Treasurer of the American Accounting Association. In addition, he has been actively involved with the American Institute of Certified Public Accountants and has been a member of the Accounting Standards Executive Committee (AcSEC) of that organization. He has served on the FASB task force that examined the reporting issues related to accounting for income taxes and is presently a trustee of the Financial Accounting Foundation. Professor Weygandt has received the Chancellor's Award for Excellence in Teaching and the Beta Gamma Sigma Dean's Teaching Award. He is on the board of directors of M & I Bank of Southern Wisconsin and the Dean Foundation. He is the recipient of the Wisconsin Institute of CPA's Outstanding Educator's Award and the Lifetime Achievement Award. In 2001 he received the American Accounting Association's Outstanding Accounting Educator Award.

Donald E. Kieso, PhD, CPA, received his bachelor's degree from Aurora University and his doctorate in accounting from the University of Illinois. He has served as chairman of the Department of Accountancy and is currently the KPMG Peat Marwick Emeritus Professor of Accounting at Northern Illinois University. He has public accounting experience with Price Waterhouse & Co. (San Francisco and Chicago) and Arthur Andersen & Co. (Chicago) and research experience with the Research Division of the American Institute of Certified Public Accountants (New York). He has done postdoctorate work as a Visiting Scholar at the University of California at Berkeley and is a recipient of NIU's Teaching Excellence Award and four Golden Apple Teaching Awards. Professor Kieso is the author of other accounting and business books and is a member of the American Accounting Association, the American Institute of Certified Public Accountants, and the Illinois CPA Society. He has served as a mem-

ber of the Board of Directors of the Illinois CPA Society, the AACSB's Accounting Accreditation Committees, the State of Illinois Comptroller's Commission, as Secretary-Treasurer of the Federation of Schools of Accountancy, and as Secretary-Treasurer of the American Accounting Association. Professor Kieso is currently serving on the Board of Trustees and Executive Committee of Aurora University, as a member of the Board of Directors of Castle BancGroup Inc., and as Treasurer and Director of Valley West Community Hospital. He served as a charter member of the national Accounting Education Change Commission. He is the recipient of the Outstanding Accounting Educator Award from the Illinois CPA Society, the FSA's Joseph A. Silvoso Award of Merit, the NIU Foundation's Humanitarian Award for Service to Higher Education, the Distinguished Service Award from the Illinois CPA Society, and the Community Citizen of the Year Award from Rotary International.

Paul D. Kimmel, PhD, CPA, received his bachelor's degree from the University of Minnesota and his doctorate in accounting from the University of Wisconsin. He is an Associate Professor at the University of Wisconsin-Milwaukee, and has public accounting experience with Deloitte & Touche (Minneapolis). He was the recipient of the UWM School of Business Advisory Council Teaching Award, the Reggie Taite Excellence in Teaching Award, and a three-time winner of the Outstanding Teaching Assistant Award at the University of Wisconsin. He is also a recipient of the Elijah Watts Sells Award for Honorary Distinction for his results on

the CPA exam. He is a member of the American Accounting Association and has published articles in Accounting Review, Accounting Horizons, Advances in Management Accounting, Managerial Finance, Issues in Accounting Education, Journal of Accounting Education, as well as other journals. His research interests include accounting for financial instruments and innovation in accounting education. He has published papers and given numerous talks on incorporating critical thinking into accounting education, and helped prepare a catalog of critical thinking resources for the Federated Schools of Accountancy.

In this Second Edition of Managerial Accounting: Tools for Business Decision Making, we strove to build on those things that made the First Edition a success in the classroom. Our goals are straightforward: We want this book to present the fundamental concepts of managerial accounting in an easy-to-understand fashion. We want to present only those concepts that students need to know. And we want students to leave the course confident that they will be able to apply the basic decision skills that they learned in this course when they enter the workforce. As a result, as you read through the list of changes to this edition and review the text, the common theme you will notice is that these changes were made to simplify and clarify our presentation of basic concepts or to strengthen the students' decision-making skills. We are very excited about this edition of the text. As in the First Edition, our efforts were driven by the following key beliefs:

"Less is more."

Our instructional objective is to provide students with an understanding of those concepts that are fundamental to the use of managerial accounting. Most students will forget procedural details within a short period of time. On the other hand, concepts, if well taught, should be remembered for a lifetime. Concepts are especially important in a world where the details are constantly changing.

Students learn best when they are actively engaged. The overriding pedagogical

"Don't just sit there do something."





"I'll believe it when I see it."



"You'll need to make a decision."



objective of this book is to provide students with continual opportunities for active learning. One of the best tools for active learning is strategically placed questions. Our discussions are framed by questions, often beginning with rhetorical questions and ending with review questions. Even our selection of analytical devices, called *Decision Tools*, is referenced using key questions to emphasize the purpose of each. In addition, technology offers many opportunities to enhance the learning environment. Through the use of interactive activities on our CD-ROM, as well as our Web site at http://www.wiley.com/college/weygandt, we offer many opportunities for active learning.

Students will be most willing to commit time and energy to a topic when they believe that it is relevant to their future careers. There is no better way to demonstrate relevance than to ground discussion in the real world. By using high-profile companies like Starbucks, Microsoft, Ben & Jerry's, and Intel to frame our discussion of accounting issues, we demonstrate the relevance of accounting while teaching students about companies with which they are familiar. In addition, because the economy has shifted toward service industries, many of the companies used as examples are service based. This shift is emphasized by our *Business Insight—Service Company Perspective* feature, as well as references to service companies such as American Express, Federal Express, and Union Pacific Railroad.

All business people must make decisions. Decision making involves critical evaluation and analysis of the information at hand, and this takes practice. We have integrated important analytical tools throughout the book. After each new decision tool is presented, we summarize the key features of that tool in a *Decision Toolkit*. At the end of each chapter, the *Using the Decision Toolkit* activity provides a comprehensive demonstration of an analysis of a real-world problem using the decision tools presented in the chapter. The *Broadening Your Perspective* homework activities require the student to employ these decision tools. Finally, an exciting new feature, *Cases for Management Decision Making*, provided at the end of the text, requires students to employ decision-making skills in rich, real-istic business settings.

KEY FEATURES OF EACH CHAPTER

Chapter 1, Managerial Accounting

- Compares and contrasts managerial accounting with financial accounting.
- · Identifies three broad functions of management.
- · Defines three classes of manufacturing costs.
- Distinguishes between product costs and period costs.
- Presents costs of goods manufactured section of income statement.
- Presents overview of trends in managerial accounting including shift toward service industries, value chain management, enterprise resource planning, just-in-time inventory, and activity-based costing.

Chapter 2, Job Order Cost Accounting

- · Provides overview of cost accounting systems.
- · Illustrates flow of costs in a job order cost system.
- · Presents use of job cost sheet.
- Demonstrates use of predetermined overhead rate.
- Illustrates basic entries for job order cost system.
- Provides simple presentation of overapplied and underapplied overhead.

Chapter 3, Process Cost Accounting

- Explains the difference between job order and process costing systems.
- Illustrates the flow of costs and end-of-period accounting procedures for process costing.
- Demonstrates computation of physical units of production, equivalent units of production, and unit costs.
- Shows how to assign costs to units of output and prepare a production cost report.

Chapter 4, Activity-Based Costing

- · Explains the need for activity-based costing (ABC).
- Contrasts ABC to traditional costing systems.
- Identifies numerous activities, activity cost pools, and cost drivers.
- Discusses implications of value-added and non-value added activities.
- Illustrates use of ABC in service industries.
- Reviews the benefits and limitations of ABC.
- Illustrates use of just-in-time inventory systems.
- Appendix discusses the implications of activity hierarchies levels.

Chapter 5, Cost-Volume-Profit Relationships

- Distinguishes between variable and fixed costs, and explains relevant range and mixed costs.
- Identifies components and assumptions of CVP analysis
- Discusses concept of contribution margin.
- Illustrates calculation of break-even point.
- · Discusses margin of safety and target net income.
- · Illustrates CVP income statement.
- Appendix presents variable and absorption costing.

Chapter 6, Budgetary Planning

· Discusses benefits of budgeting.

- Illustrates the process of assembling information for a master budget.
- Prepares budgeted income statement, balance sheet, and cash budget.
- Discusses use of budgets in merchandising, service, and not-for-profit enterprises.

Chapter 7, Budgetary Control and Responsibility Accounting

- Explains how budgets are used to control costs and operations.
- · Contrasts static budgets and flexible budgets.
- Uses a case study to illustrate usefulness of flexible budgets.
- · Illustrates responsibility reporting systems.
- Defines cost centers, profit centers, and investment centers
- Illustrates the computation and use of return on investment and (in a chapter appendix) residual income.

Chapter 8, Performance Evaluation Through Standard Costs

- Differentiates between a standard and a budget.
- Discusses advantages of standard costs and methods of computing.
- Illustrates computation of direct materials variance, direct labor variance, and manufacturing overhead variance.
- Demonstrates analysis through comparison of actual with standard.
- Appendix illustrates the journal entries for a standard cost system.

Chapter 9, Incremental Analysis

- Presents the concept of incremental analysis through a simple example.
- Explains the concepts of relevant cost, opportunity cost, and sunk cost.
- Applies incremental analysis in the following decision settings:
 - Accept an order at a special price
 - Make or buy
 - Sell or process further, including discussion of joint costs
 - Retain or replace equipment
 - Eliminate an unprofitable segment
- Reviews sales mix issues, including how to allocate limited resources across multiple products and how to determine break-even points with more than one product.

Chapter 10, Capital Budgeting

- · Discusses nature of capital budgeting decisions.
- Describes and illustrates four methods of evaluating capital expenditures:
 - Cash payback technique
 - · Net present value method
 - · Internal rate of return method
 - · Annual rate of return technique
- Discusses the profitability index, post audits, and the implications of intangible benefits when making capital budgeting decisions.

Chapter 11, Pricing Decisions

- Demonstrates how to compute target cost when a product's price is determined by the market.
- Illustrates how to compute target selling price using cost-plus pricing.
- Demonstrates how to use time and materials pricing when services are provided.
- Discusses the objective of transfer pricing.
- Illustrates how to determine a transfer price using the cost-based, market-based, and negotiated approaches.
- Explains the issues involved when goods are transferred between countries with different tax rates.

Chapter 12, The Statement of Cash Flows

- Discusses the purpose and usefulness of the statement of cash flows.
- Discusses the implications of the product life-cycle for analysis of the statement of cash flows.
- Illustrates preparation of the statement of cash flows using a two-year progression of transactions. Year 1 is basic transactions, and year 2 involves more advanced transactions. The presentation is designed to allow the instructor to focus exclusively on either the indirect approach or the direct approach, or to cover both.
- Presents ratio analysis of the statement of cash flows using free cash flow, capital expenditure ratio, current cash debt coverage, cash debt coverage, and cash return on sales.

Chapter 13, Financial Analysis: The Big Picture

- Provides a comprehensive discussion of analytical tools and their interrelationships.
- Discusses the concept of earning power and the presentation of irregular items: discontinued operations, extraordinary items, and cumulative effect of change in accounting principle.
- · Includes a basic discussion of comprehensive income.
- · Illustrates horizontal and vertical analysis.
- Provides thorough analysis of the actual financial statements of Kellogg Company using ratio analysis.

NEW IN THIS EDITION

The First Edition of *Managerial Accounting* was very well received. In the spirit of continuous improvement, we have made many changes in this Second Edition. The changes can be categorized into three types: Cases for Management Decision Making, Interactive CD-ROM and Web site, and changes to the text chapters.

Cases for Management Decision Making

Consistent with our objective of developing decision-making skills, we have added a series of cases to this edition of the text. These cases provide opportunities to use the decision tools presented in the chapters in a realistic business situation. The cases can be used as a comprehensive capstone activity at the end of the course, or as a recurring activity during the course. These activities are intended to be richer and more challenging than a traditional problem but are still targeted at the introductory-level student.

Interactive CD-ROM and Web Site

Technology offers many opportunities to enrich the learning environment. With this edition of the text we have expanded the materials provided on our Web site, as well as developed an interactive CD-ROM. These materials include the following:

Learning Techniques resources are designed to improve student study skills.

- · Learning Styles Quiz
- Interactive Study Skills Chart

Course Materials reinforce materials covered in the text or provide resources to develop communication skills.

- · Interactive Self-Test
- · Key Term Matching Activity
- Accounting Cycle Tutorial
- Interactive Problems and Demonstration Problems
- Writing Handbook
- Surviving the Group Project

Career Paths provides resources about careers in accounting.

- Why Accounting Is Important
- · Careers in Accounting
- · Professional Profiles

KEY CHANGES IN EACH CHAPTER

Chapter 1, Managerial Accounting

- New Feature Story on Compaq Computer
- Revised and streamlined presentation on management functions
- New Business Insight on auto manufacturing productivity
- New Business Insight on managing the delivery of bananas
- Revised coverage of service industry trends, significantly revised illustrations
- · New section on value chain management
- Two new e-Business Insights on computerized business infrastructures and computer-integrated manufacturing
- · Revised exercises and problems

Chapter 2, Job Order Cost Accounting

- · Clarified rationale for predetermined overhead rates
- New e-Business Insight on GM's Web-based order system
- New Business Insight on the use of microcomputers by small manufacturers
- New Business Insight on overhead in service companies
- Revised exercises and problems

Chapter 3, Process Cost Accounting

 Added a six-page appendix discussing and illustrating the FIFO method of computing equivalent units (as contrasted to the weighted average method covered in the chapter)

Chapter 4, Activity-Based Costing

- Moved "Activity-Based Costing in Service Industries" section from appendix into body of the chapter
- Moved section on hierarchy of activity levels from the body of the chapter into an appendix
- Revised the infographic on activities and related cost drivers to tie it more conceptually to the illustrations, and expanded the text explanation of the related illustrations
- New Business Insight on General Mills's efforts to eliminate nonvalue-added activities
- · Revised exercises and problems

Chapter 5, Cost-Volume-Profit Relationships

- Added new section on CVP income statement, including illustrations of the statement with and without net income
- Revised the section on use of the mathematical equation in breakeven analysis
- Simplified the presentation of detailed CVP income statement
- Revised the Decision Toolkit to include the contribution margin ratio
- · New Business Insight on efficiency in woodworking
- · New e-Business Insight on flightserve.com
- New e-Business Insight on Internet business "conversion rates"
- New Business Insight on the use of computer graphics in "what if analysis"
- Revised exercises and problems

Chapter 6, Budgetary Planning

- Simplified long-range planning discussion
- New e-Business Insight on improving planning and budgeting
- Revised exercises and problems

Chapter 7, Budgetary Control and Responsibility Accounting

- Added new chapter appendix on "Residual Income— Another Performance Measurement" and related homework material
- New e-Business insight on enterprise application systems (EAS)
- · Revised exercises and problems

Chapter 8, Performance Evaluation Through Standard Costs

- Added a new Before You Go On (Review It/Do It) following direct materials variances section
- Moved the Standard Cost Accounting System section with journal entries into a chapter appendix
- New e-Business Insight on computerized standard cost systems
- Revised exercises and problems

Chapter 9, Incremental Analysis

- Added joint-product presentation with illustrations in sell-or-process-further section, plus related homework materials
- Revised exercises and problems

Chapter 10, Capital Budgeting

- · Added several new marginal Helpful Hints
- New e-Business Insight on General Electric's e-business related capital expenditures
- · Revised exercises and problems

Chapter 11, Pricing Decisions

- Entirely new chapter consisting of two major pricingdecision parts: I. External sales (customer pricing), and II. Internal sales (transfer pricing).
- A chapter appendix discusses the absorption cost and the contribution approaches
- · All new homework material
- A Comprehensive Problem covering Chapters 1–11 is provided on the CD-Rom that accompanies the text, as well as on the book's Web site.

Chapter 12, The Statement of Cash Flows (formerly Chapter 11)

- New Feature Story—"Cash is Cash, and Everything Else is Accounting"
- · New section on the corporate life cycle
- New section on the meaning of the term "cash flows"
- New Business Insight on the corporate life cycle of specific companies
- New infographic drawings
- New Business Insight comparing "net income" to "net cash from operations"
- · Revised exercises and problems

Chapter 13, Financial Analysis: The Big Picture (formerly Chapter 12)

- · New Feature Story on the day-trading New York cabby
- Updated Kellogg Company and Quaker Oats financial results used in analysis
- · Expanded the explanation of comparative analysis
- · New e-Business Insight on internal security analysis
- Revised exercises and problems

Appendix A, New Specimen Financial Statements: Tootsie Roll Industries, Inc.

Appendix B, New Comparative Specimen Financial Statements: Hershey Foods Corporation

Appendix C: Time Value of Money

Appendix D: Ethical Standards

Cases for Management Decision Making

 New selection of five cases to be used in conjunction with Chapters 2, 4, 5, 6, 9, 10, and 11.

PROVEN PEDAGOGICAL FRAMEWORK

In this book we have used many proven pedagogical tools to help students learn accounting concepts and apply them to decision making in the business world. This pedagogical framework emphasizes the *processes* students undergo as they learn.

Learning How to Use the Text

- The text begins with a Student Owner's Manual, which helps students understand the value of the text's learning aids and how to use them. After becoming familiar with the pedagogy, students can take a Learning Styles Quiz (p. xxiii) to help them identify how they learn best—visually, aurally, through reading and writing, kinesthetically, or through a combination of these styles. They then will find tips on in-class and at-home learning strategies, as well as help in identifying the text features that would be most useful to them based on their learning style.
- Additionally, Chapter 1 contains notes (printed in red) that explain each learning aid the first time it appears.
- The Navigator pulls all the learning aids together into a learning system. It is designed to guide students through each chapter and help them succeed in learning the material. The Navigator consists of (1) a checklist at the beginning of the chapter, which outlines text features and study aids students will need in order to master the topics, and (2) a series of check boxes that prompt students to use the learning aids and set priorities as they study. At the end of the chapter, students are reminded to return to The Navigator to check off their completed work. The Navigator from Chapter 2 is shown below.

•	Scan Study Objectives
•	Read Feature Story
•	Read Preview
	Read text and answer Before You Go On p. 48 p. 59 p. 66
	Work Using the Decision Toolkit
	Review Summary of Study Objectives
	Work Demonstration Problem
	Answer Self-Study Questions
	Complete Assignments

Understanding the Context

- Study Objectives, listed at the beginning of each chapter, form a learning framework throughout the text.
 Each objective is repeated in the margin at the appropriate place in the main body of the chapter and again in the Summary of Study Objectives. Also, end-of-chapter assignment materials are linked to the Study Objectives.
- A chapter-opening Feature Story presents a scenario that helps students picture how the chapter topic relates to the real world of accounting and business situations. It also serves as a recurrent example in the chapter. Each

- story that focuses on a well-known company ends with the company's Web address to encourage students to go on-line for more information about these companies.
- A chapter Preview links the chapter-opening Feature Story to the major topics of the chapter. First, an introductory paragraph explains how the story relates to the topics to be discussed, and then a graphic outline of the chapter provides a "road map," useful for seeing the big picture as well as the connections between subtopics.

Learning the Material

- This book emphasizes the accounting experiences of real companies and business situations throughout, from chapter-opening Feature Stories to the chapter's last item of homework material. Details on these many features follow. In addition, every chapter uses accounting practices of real companies. Names of real companies are highlighted in red, and many of these real-world examples and illustrations are identified by a company logo.
- Continuing the real-world flavor of the book, Business
 Insight boxes in each chapter give students glimpses
 into how real companies make decisions using ac counting information. The boxes, highlighted with
 striking photographs, focus on four different account ing perspectives—those of managers, international
 business, service companies, and e-business. The ser vice company and e-business categories are new to this
 edition.
- Color illustrations support and reinforce the concepts of the text. Infographics help students visualize and apply accounting concepts to the real world. These infographics often portray important concepts in entertaining and memorable ways. When illustrations present financial statements or computations, numbers or categories are highlighted in colored type to draw students' attention to key information.
- **Before You Go On** sections occur at the end of each key topic and consists of two parts: **Review It** serves as a learning check within the chapter by asking students to stop and answer knowledge and comprehension questions about the material just covered. **Do It** is a brief demonstration problem that gives immediate practice using the material just covered. An **Action Plan** lists the steps necessary to complete the task, and a **Solution** is provided to help students understand the reasoning involved in reaching an answer. The **Do It** exercises are keyed to related homework exercises.
- Helpful Hints in the margins expand upon or help clarify concepts under discussion in the nearby text. This feature actually makes the book an Annotated Student Edition.
- Key terms and concepts are printed in blue where they
 are first explained in the text and are defined again in
 the end-of-chapter glossary. Alternative Terminology
 notes in the margins present synonymous terms that
 students may come across in subsequent accounting
 courses and in business.
- Each chapter presents decision tools that are useful for analyzing and solving the business problems dis-

- cussed in that chapter. At the end of the text discussion relating to the decision tool, a **Decision Toolkit** summarizes the key features of that decision tool and reinforces its purpose.
- A Using the Decision Toolkit exercise, which follows the final Before You Go On section in the chapter, shows students how to use the decision tools presented in that chapter.

Putting It Together

At the end of each chapter, between the body of the text material and the homework materials, are several features useful for review and reference:

- A Summary of Study Objectives reviews the main points of the chapter; the Decision Toolkit—A Summary presents in one place the decision tools used throughout the chapter; and a Glossary of important terms gives definitions with page references to the text. A CD icon tells students that there is a Key Term Matching Activity on the Managerial Accounting CD-ROM that can help them master the material.
- Next, a Demonstration Problem gives students another opportunity to refer to a detailed solution to a representative problem before they do homework assignments. An Action Plan presented in the margin lists strategies to assist students in understanding the solution and help establish a logic for approaching similar problems. A Web icon tells students that there is an Interactive Demonstration Problem they can work on the book's Web site.

Developing Skills through Practice

Throughout the homework material, questions, exercises, and problems make use of the decision tools presented in the chapter.

- Self-Study Questions comprise a practice test to enable students to check their understanding of important concepts. These questions are keyed to the Study Objectives, so students can go back and review sections of the chapter in which they find they need further work. Answers appear on the last page of the chapter. A Web and a CD icon tell students that they can answer the Self-Study Questions in an interactive format on the text's CD-ROM or Web site. They can also take an additional Self-Test on the Web site to further help them master the material.
- Questions provide a full review of chapter content and help students prepare for class discussions and testing situations.
- Brief Exercises build students' confidence and test their basic skills. Each exercise focuses on a single Study Objective.
- Each of the **Exercises** focuses on one or more of the **Study Objectives**. These tend to take a little longer to complete and present more of a challenge to students than Brief Exercises. The Exercises help instructors and students make a manageable transition to more challenging problems. Certain exercises, marked with a , help students practice business writing skills.

- **Problems** stress the application of the concepts presented in the chapter. Two sets of problems—A and B—have corresponding problems keyed to the same **Study Objectives**, thus giving instructors greater flexibility in assigning homework. Certain problems, marked with an icon , help build business writing skills. The **Web icon** indicates that students can complete certain problems in an interactive format on the text's Web site.
- Each Brief Exercise, Exercise, and Problem has a description of the concept covered and is keyed to the Study Objectives.
- Spreadsheet Exercises and Problems, identified by an icon, can be solved using Solving Managerial Accounting Problems Using Excel.

Expanding and Applying Knowledge

Broadening Your Perspective is a unique section at the end of each chapter that offers a wealth of resources to help instructors and students pull together the learning for the chapter. This section offers problems and projects for those instructors who want to broaden the learning experience by bringing in more real-world decision making, analysis, and critical thinking activities. The elements of the Broadening Your Perspective section are as follows.

- Group Decision Cases help students build decision-making skills by analyzing accounting information in a
 less structured situation. These cases either require
 evaluation of a manager's decision, or lead to a decision among alternative courses of action. As group activities, these cases promote teamwork and help prepare students for the business world, where they will
 be working with teams of people.
- Like the decision cases, the Managerial Analysis assignments build analytical and decision-making skills in problematic situations encountered by business managers. They also require the application of business communication skills.
- The Real-World Focus problems ask students to apply techniques and concepts presented in the chapter to specific situations faced by actual companies.
- Exploring the Web exercises guide students to Web sites where they can find and analyze information related to the chapter topic. These sites can be reached directly or by linking through the text's Web site.
- Communication Activities give students practice in communicating to different audiences in varying modes—letters, reports, memos, explanations, and analyses. These are skills much in demand by employers.
- Since the ability to read and understand business publications is an asset used over the span of one's career,
 Research Assignments direct students to annual reports or articles published in the Wall Street Journal and other popular business periodicals for further study and analysis of key topics.
- Ethics Cases contain ethical dilemmas and ask students to analyze the situation, identify the stakeholders affected, describe the ethical issues involved, and decide on an appropriate course of action.

Cases for Management Decision Making, provided at the end of the text, require students to use the decision tools presented in the chapters in realistic business situations. The cases can be used as a comprehensive capstone activity at the end of the course, or as a recurring activity during the course. They are intended to be richer and more challenging than a traditional problem but are still targeted at an introductory level student.

ACTIVE TEACHING AND LEARNING SUPPLEMENTARY MATERIAL

The Managerial Accounting Web Site at http://www.wiley.com/college/weygandt



A resource and learning tool, the Web site serves as a launching pad to numerous activities, resources, and related sites. On the Web site you will find an *Interactive Learning Styles Quiz*, an

Interactive Study Skills Chart, Interactive Self-Study Questions and Self-Tests, and Exploring the Web Exercises. In addition, there are links to companies discussed in the text and items available for downloading such as Power-Point presentations. A link to the Wiley Business Extra site is also provided.

The Web site also contains an *Interactive Problem Set*, which allows students to work through additional demonstration problems and select homework problems found in the main text. It provides immediate feedback on a student's work and has a randomizing function, so students can work on multiple variations of the same problem.

Interactive CD-ROM



The Interactive CD-ROM is designed to help students understand and apply managerial accounting concepts in both academic and realworld scenarios. In addition to an *Accounting*

Cycle Tutorial, the CD-ROM contains an Interactive Learning Styles Quiz, an Interactive Study Skills Chart, Interactive Self-Tests, Key Term Matching Activities, a Comprehensive Problem covering Chapters 1-11, a Writing Handbook, and a Surviving the Group Project primer. The CD-ROM also addresses Careers in Managerial Accounting and provides Professional Profiles, audio interviews with accounting and other business professionals.

Instructor's Active-Teaching Aids

For the instructor, we have designed an extensive support package to help you maximize your teaching effectiveness, including print and technology tools. We offer useful supplements for instructors with various levels of experience and different instructional circumstances.

Instructor's Resource System on CD-ROM. Responding to the changing needs of instructors and to developments in distance learning and electronic classrooms, a CD-ROM supplement provides all the instructor support material in an electronic format that is easy to navigate and use. This CD-ROM contains print supplements, as well as the electronic ones, for use in the classroom, for printing out material, for uploading to your own Web site,

or for downloading and modifying. The CD-ROM gives you the flexibility to access and prepare instructional material based on your individual needs.

Solutions Manual. The Solutions Manual contains detailed solutions to all exercises and problems in the textbook and suggested answers to the questions and cases. Print is large and bold for easy readability in lecture settings, and instructors may duplicate any portion of the manual without paying a permissions fee. Each chapter includes an assignment classification table (identifies end-of-chapter items by study objectives), an assignment characteristics table (describes each problem and identifies difficulty level and estimated completion time), and a Bloom's taxonomy table (classifies end-of-chapter items by Bloom's taxonomy of learning objective and study objective). (Also available at http://www.wiley.com/college/weygandt.)

Solutions Transparencies. Packaged in an organizer box with chapter file folders, these transparencies feature detailed solutions to all exercises and problems in the textbook, and suggested answers to the cases. They feature large, bold type for better projection and easy readability in large classroom settings. Accuracy is assured—all solutions were extensively checked by the authors and reviewers.

Instructor's Manual. The Instructor's Manual is a comprehensive resource guide designed to assist professors in preparing lectures and assignments, and includes sample syllabi for preparing for the course. The print is set in a size large enough for easy reading or use as transparency masters.

Included for each chapter are an assignment classification table; an assignment characteristics table; a list of study objectives in extra-large, boldface print for transparencies; a chapter review of the significant topics and points contained in the chapter; enhanced lecture outlines with teaching tips and references to text material; suggestions for integrating supplements into the classroom; a 20-minute quiz in the form of 10 true/false and 5 multiple-choice questions (with solutions); and illustrations, including diagrams, graphs, questions, and exercises, for use as classroom handouts. overhead transparencies, inclass quizzes, or demonstrations (solutions are provided). (Also available at http://www.wiley.com/college/weygandt.)

Teaching Transparencies. A number of illustrations are available in four-color format. We have selected these illustrations from the text and from original exhibits out-side the text as well. Designed to support and clarify concepts in the text, the Teaching Transparencies will enhance lectures. Suggestions on how to integrate the Teaching Transparencies are included in the Instructor's Manual.

Examination Book and Test Bank. The Examination Book and Test Bank is a comprehensive testing package that allows instructors to tailor examinations according to study objectives, learning skills, and content. A main feature of this supplement is the revised Test Bank that, with the inclusion of 15 percent more multiple choice questions and two new exercises for each chapter, now totals over 800 examination questions and exercises ac-

companied by solutions. This revision of the Test Bank still includes the helpful *Summary of Questions by Objectives* and *Summary of Objectives by Questions*, tools effective in linking test items to study objectives. Each chapter also includes a chart indicating the placement of questions in Bloom's taxonomy. An estimated completion time for each question and exercise is also provided.

The Examination Book and Test Bank provides an achievement test and solutions bank for every two chapters in the textbook. Three comprehensive tests and a final exam are also provided. The tests, easy to photocopy and distribute to students, consist of problems and exercises as well as multiple-choice, matching, and true/false questions.

Computerized Test Bank. The Test Bank is also available for use with IBM and IBM true-compatibles running Windows 3.1 or higher. This Computerized Test Bank offers a number of valuable options that allow instructors to create multiple versions of the same test by scrambling questions; generate a large number of test questions randomly or manually; and modify and customize test questions by changing existing problems or adding your own. (Also available at http://www.wiley.com/college/weygandt.)

Test Preparation Service. Simply call Wiley's special number (1-800-541-5602) with the questions you want on an examination. Wiley will provide a customized master exam within 24 hours. If you prefer, random selection from a number of chapters is possible.

Checklist of Key Figures. A listing of key amounts for textbook problems, allowing students to verify the accuracy of their answers as they work through the assignments, is available at http://www.wiley.com/college/weygandt.

PowerPoint Presentation Material. This PowerPoint lecture aid contains a combination of key concepts, images, and problems from the textbook for use in the classroom. Designed according to the organization of the material in the textbook, this series of electronic transparencies can be used to reinforce managerial accounting principles visually and graphically. (Also available at http://www.wiley.com/college/weygandt.)

Nightly Business Report Video. This video contains segments from the highly respected Nightly Business Report that have been selected for their applicability to managerial accounting and for their reinforcement of key concepts in the text. Each of the segments is approximately 3–5 minutes long and can be used to introduce topics to the students, enhance lecture material, and provide real-world context for related concepts. An Instructor's Manual with suggestions for integrating the material into the classroom accompanies the video.

Student Active-Learning Aids

Excel Working Papers. The Excel Working Papers CD-ROM compiles all the accounting forms you will need to

successfully complete your study work for *Managerial Accounting* Second Edition. The templates on this CD-ROM can be found in the paperbound working papers and therefore include custom forms for all relevant end-of-chapter exercises, problems, and cases. The Excel Working Papers, however, provide you with the option of printing forms and completing them manually, or entering data electronically and then printing out a completed form. By entering data electronically, you can now paste homework to a new file and e-mail the worksheet to your instructor.

Working Papers. Working Papers are accounting forms for all end-of-chapter exercises, problems, and cases. A convenient resource for organizing and completing homework assignments, they demonstrate how to correctly set up solution formats and are directly tied to textbook assignments.

Student Study Guide. The Student Study Guide is a comprehensive review of accounting and a powerful tool for students to use in the classroom. Tied to study objectives, it guides students through chapter content and provides resources for use during lectures. **This is an excellent resource when preparing for exams.**

Each chapter of the Student Study Guide includes study objectives and a chapter review consisting of 20–30 key points; a demonstration problem linked to study objectives in the textbook; and additional opportunities for students to practice their knowledge and skills through true/false, multiple-choice, and matching questions related to key terms and exercises linked to study objectives. Solutions to the exercises explain the hows and whys so students get immediate feedback.

Business Extra Web Site at http://www.wiley.com/college/businessextra. To complement the On-Line Business Survival Guide in Accounting, the Business Extra Web site given professors and students instant access to a wealth of current articles dealing with all aspects of accounting. The articles are organized by topic, and discussion questions follow each article.

Solving Managerial Accounting Problems Using Excel. This workbook contains Excel templates that allow students to complete select end-of-chapter exercises and problems identified by a spreadsheet icon in the margin of the main text. A useful introduction to computers, this package details how students can work with preprogrammed spreadsheets and it instructs on how to design your own spreadsheet. The workbook and templates help students develop and hone their computer skills and effectively exposes them to Excel. Solutions are available at http://www.wiley.com/college/weygandt.

Our goal has been to make this book accurate, interesting, and educationally sound. Our hope is that this book provides a positive experience for both teacher and student.

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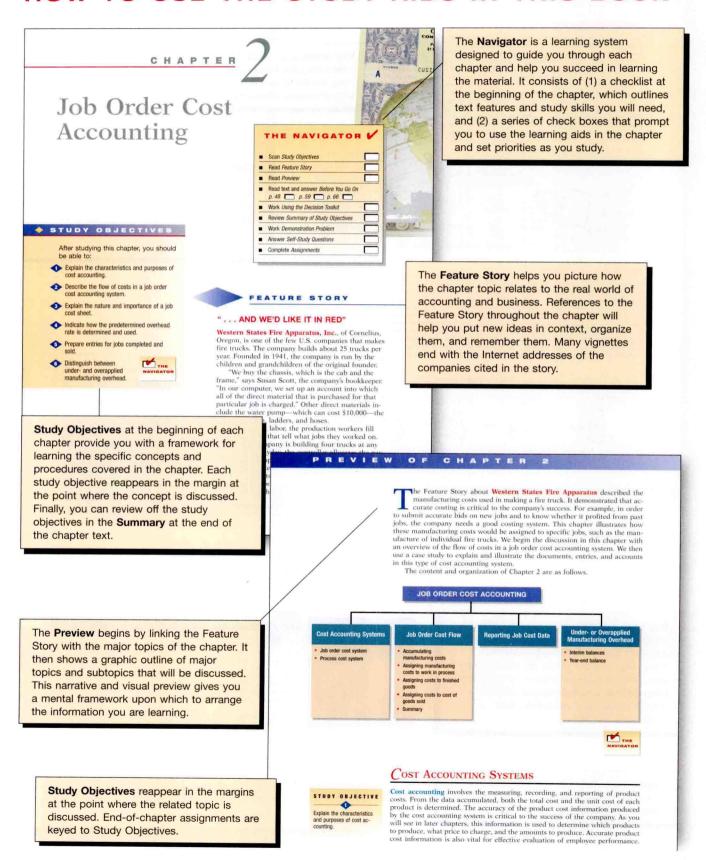
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Jerry J. Weygandt / Donald E. Kieso / Paul D. Kimmel

STUDENT OWNER'S MANUAL

HOW TO USE THE STUDY AIDS IN THIS BOOK



Cost Accounting Systems

JOB ORDER COST SYSTEM

Under a job order cost system, costs are assigned to each job or to each batch of goods. An example of a job would be the manufacture of a mainframe computer by IBM, the production of a movie by Disney, or the making of a fire truck by Western States. An example of a batch would be the printing of 225 wedding invitations by a local print shop, or the printing of a weekly issue of Fortune magazine by a hi-tech printer such as Quad Graphies. Jobs or batches may be completed to fill a specific customer order or to replenish inventory.

An important feature of job order costing is that each job (or batch) has its own distinguishing characteristics. For example, each house is custom built, each consulting engagement by a CPA firm is unique, and each printing job is different. The objective is to compute the cost per job. At each point in the manufacturing of a product or the providing of a service, the job and its associated costs can be identified. A job order cost system measures costs for each completed job, rather than for set time periods. The recording of costs in a job order cost system is shown in illustration 2-1.

Key terms and concepts are printed in blue where they are first explained in the text. They are listed and defined again in the end-of-chapter Glossary.



PROCESS COST SYSTEM

A process cost system is used when a series of connected manufacturing processes or departments produce a large volume of similar products. Production is continuous to ensure that adequate inventories of the finished product(s) are on hand. A process cost system is used in the manufacture of cereal by Kellogg, the refining of petroleum by Excom Mobil, and the production of automobiles by General Motors. Process costing accumulates product-related costs for a period of time (such as a week or a month) instead of assigning costs to specific products or job orders. In process costing, the costs are assigned to departments or processes for a set period of time. The recording of costs in a process cost system is shown in Illustration 2-2. The process cost system will be discussed further in Chapter 3.



Color illustrations visually reinforce important concepts and therefore often contain material that may appear on exams. Infographics, a special type of illustration, pictorially link concepts to the real world and provide visual reminders of key concepts.

Waliace Manufacturing Company
Job Cost Sheet

Quantity
Date Requested
Date Completed
Date Completed
Date Manufacturing
Coverhead

Si completed job
ccr materials
ccr labor
andifecturing overhead
al cost
cost (total dollars + quantity)

Si cost (total dollars + quantity)

Postings to job cost sheets are made daily, directly from supporting documents. A separate job cost sheet is kept for each job. The job cost sheets constitute the subsidiary ledger for the Work in Process Inventory account. Each entry to Work in Process Inventory must be accompanied by a corresponding posting to one or more job cost sheets.

Business Insight examples give you more glimpses into how real companies make decisions using accounting information. These high-interest boxes are classified by four different points of view—management perspectives, international perspectives, service company perspectives, and e-business insights.

Helpful Hints in the margins are like having an instructor with you as you read. They further clarify concepts being discussed.



- BUSINESS INSIGHT

General Motors recently launched a new Internet-based orderinstead of the 55 to 60 days it previously took. Customers interested in a GM car can search online to see if any dealers have a car with the options they want. If not, the customer uses an online program to configure a car with the desired options and then places the order. While this online approach could potentially provide savings for automakers by reducing inventory costs, some people are skeptical. One auto analyst stated, 'I don't think it's going to lead to a massive change in the way vehicles are built and sold in the next 10 years."

Source: Karen Lundegaard, "GM Tests Web-Based Ordering System, Seeking to Slash Custom-Delivery Time," Wall Street Journal, November 17, 2000.

Raw Materials Costs

Helpful Hint Approvals are an important part of a materials requisition slip because they help to establish individual accountability over inventory. Raw materials costs are assigned when the materials are issued by the storeroom. To achieve effective internal control over the issuance of materials, the storeroom worker should receive a written authorization before materials are released to production. Such authorization for issuing raw materials is made on a prenumbered materials requisition sllp. This form is signed by an au-

One of the special types of Business Insight boxes, Service Company Perspectives highlight accounting practices in this growing segment of our economy.





USINESS INSIGHT Service Company Perspective Frequently when we think of service companies we think of spe

providing consulting services on a business acquisition, or working on a major lawsuit. Clearly, such nonroutine situations would call for job order costa major lawsuit. Clearly, such nonroutine situations would call for job order cost-ing. However, many service companies specialize in performing repetitive, rou-tine aspects of a particular business. For example, auto-care vendors such as Jiffy Lube focus on the routine aspects of car care. H&R Block focuses on the routine aspects of basic tax practice, and many large law firms focus on routine legal services, such as uncomplicated divorces. For service companies that perregal services, are a sinconjuncted uncertainty of the companion of their accounting needs. In fact, since in many instances there is little or no work in process at the end of the period, applying process costing in this setting can even easier than for a manufacture

of \$22,400 to Work in Process Inventory equals the sum of the overhead assigned

of \$22,400 to Work in Process Inventory equals the sum of the overhead assigned to jobs: Job 101 \$12,000 + Job 102 \$7,200 + Job 103 \$3,200.

At the end of each month, the balance in Work in Process Inventory should equal the sum of the costs shown on the job cost sheets of unfinished jobs. Assuming that all jobs are unfinished, proof of the agreement of the control and subsidiary accounts in Wallace Manufacturing is shown below.

Wo	rk in Process Inventor	ry Job Cos	Job Cost Sheets	
Jan. 31	24,000	No. 101	\$39,000	
. 31	28,000	102	23,200	
31	22,400	103	12,200	
-	74,400 ←		-\$74,400	

DECISION TOOLKIT

Decision Checkpoints	Info Needed for Decision	Tool to Use for Decision	How to Evaluate Results
What is the cost of a job?	Cost of material, labor, and overhead assigned to a specific job	Job cost sheet	Compare costs to those of previous periods and to those of competitors to ensure that costs are in line. Compare costs to expected selling price or service fees charged to determine overall profitability.

Each chapter presents decision tools that help decision makers analyze and solve business problems. At the end of the text discussion, a **Decision Toolkit** summarizes the key features of a decision tool and reviews why and how you would use it.

BEFORE YOU GO ON

Review It

- 1. What source documents are used in assigning manufacturing costs to Work in Process Inventory?
- 2. What is a job cost sheet, and what is its primary purpose?
- 3. What is the formula for computing a predetermined overhead rate?

Danielle Company is working on two job orders. The job cost sheets show the following:

Direct materials—Job 120 \$6,000, Job 121 \$3,600 Direct labor—Job 120 \$4,000, Job 121 \$2,000

Manufacturing overhead—Job 120 \$5,000, Job 121 \$2,500

Prepare the three summary entries to record the assignment of costs to Work in Process from the data on the job cost sheets.

Action Plan

· Recognize that Work in Process Inventory is the control account for all unfinished job cost sheets

Before You Go On sections follow each key topic. Review It questions prompt you to stop and review the key points you have just studied. If you cannot answer these questions, you should go back and read the section again.

Brief Do It exercises ask you to put to work your newly acquired knowledge. They outline an Action Plan necessary to complete the exercise, and the Solution helps you see how the exercise should be solved. The Do It exercises are keyed to similar homework exercises.

CHAPTER 2 Job Order Cost Accounting

- Debit Work in Process Inventory for the materials, labor, and overhead charged to the job cost sheets.
- · Credit the accounts that were debited when the manufacturing costs were

Solution: The three summary entries are

Work in Process Inventory (\$6,000 + \$3,600) Raw Materials Inventory (To assign materials to jobs)	9,600	9,600
Work in Process Inventory (\$4,000 + \$2,000) Factory Labor (To assign labor to jobs)	6,000	6,000
Work in Process Inventory (\$5,000 + \$2,500) Manufacturing Overhead	7,500	7,500

Related exercise material: BE2-3, BE2-4, BE2-7, E2-2, E2-3, E2-7, and E2-8.