

1 The Accountant's Role in the Organization 1

- Management Accounting, Financial Accounting, and Cost Accounting 2
- Strategic Decisions and the Management Accountant 3
- The Management Accountant's Role in Implementing Strategy 4
 - Value-Chain Analysis 4
 - Supply-Chain Analysis 5
 - Key Success Factors 6
- Planning and Control Systems 7
 - Feedback: Linking Planning and Control 7

CONCEPTS IN ACTION: E-Business Strategies and the Management Accountant 8

- An Example: Planning and Control and the Management Accountant 9
 - Problem-Solving, Scorekeeping, and Attention-Directing Roles 10
- Key Management Accounting Guidelines 11
 - Cost-Benefit Approach 11
 - Behavioral and Technical Considerations 11

GLOBAL SURVEYS OF COMPANY PRACTICE: Today's Management Accountant 12

- Different Costs for Different Purposes 13
- Organization Structure and the Management Accountant 13
 - Line and Staff Relationships 13
 - The Chief Financial Officer and the Controller 13

FOCUS ON VALUES AND BEHAVIORS 15

Management Accounting Beyond the Numbers

- Professional Ethics 15
 - Ethical Guidelines 16
 - Typical Ethical Challenges 17
- Problem for Self-Study 18 • Decision Points 18 • Terms to Learn 19 • Assignment Material 19 • Video Case: Regal Marine 24

2 An Introduction to Cost Terms and Purposes 26

- Costs and Cost Terminology 27
- Direct Costs and Indirect Costs 27
 - Cost Tracing and Cost Allocation 27

FOCUS ON VALUES AND BEHAVIORS 29

Overcharging the U.S. Government

- Factors Affecting Direct/Indirect Cost Classifications 29
- Cost-Behavior Patterns: Variable Costs and Fixed Costs 30

GLOBAL SURVEYS OF COMPANY PRACTICE: Distinguishing Between Variable Costs and Fixed Costs 31

- Cost Drivers 32

CONCEPTS IN ACTION: How Application Service Providers (ASPs) Influence Cost Structures 33

- Relevant Range 33
- Relationships of Types of Costs 34
- Total Costs and Unit Costs 34
 - Unit Costs 34
 - Use Unit Costs Cautiously 36
- Manufacturing-, Merchandising-, and Service-Sector Companies 36
- Financial Statements, Inventoriable Costs, and Period Costs 36
 - Types of Inventory 37
 - Commonly Used Classifications of Manufacturing Costs 37
 - Inventoriable Costs 37
 - Period Costs 38
- Illustrating the Flow of Inventoriable Costs and Period Costs 38
 - Manufacturing-Sector Example 38
 - Recap of Inventoriable Costs and Period Costs 40
 - Prime Costs and Conversion Costs 42
- Measuring Costs Requires Judgment 42
 - Measuring Labor Costs 42
 - Overtime Premium and Idle Time 43
 - Benefits of Defining Accounting Terms 44
 - Different Meanings of Product Costs 44
- A Framework For Cost Accounting and Cost Management 46
- Problem for Self-Study 47 • Decision Points 49 • Terms to Learn 49 • Assignment Material 50 • Video Case: Three Dog Bakery 58

3 Cost-Volume-Profit Analysis 60

- Cost-Volume-Profit Assumptions and Terminology 61
- Essentials of CVP Analysis 62
 - Equation Method 63
 - Contribution Margin Method 64
 - Graph Method 64
- Breakeven Point and Target Operating Income 65
 - Target Operating Income 66
 - Target Net Income and Income Taxes 67
- Using CVP Analysis for Decision Making 68
 - Decision to Advertise 68
 - Decision to Reduce Selling Price 69

Sensitivity Analysis and Uncertainty 69

Cost Planning and CVP 71

Alternative Fixed-Cost/Variable-Cost Structures 71

Operating Leverage 72

FOCUS ON VALUES AND BEHAVIORS 74

Worldcom: Simply a Matter of Poor Planning?

Effects of Sales Mix on Income 74

CONCEPTS IN ACTION: Influencing Cost Structures to Manage the Risk-Return Trade-Off at Amazon.com 75

Multiple Cost Drivers 77

CVP Analysis in Service and Nonprofit Organizations 78

Contribution Margin Versus Gross Margin 78

Merchandising Sector 79

Manufacturing Sector 79

Problem for Self-Study 79 • Decision Points 80

APPENDIX: Decision Models and Uncertainty 81

Terms to Learn 84 • Assignment Material 84 • Video Case: Store 24 95

4 Job Costing 97

Building-Block Concepts of Costing Systems 98

Job-Costing and Process-Costing Systems 99

Actual Costing in Manufacturing 100

General Approach to Job Costing 101

GLOBAL SURVEYS OF COMPANY PRACTICE: Cost-Allocation Bases Used for Manufacturing Overhead 103

The Role of Technology 105

CONCEPTS IN ACTION: Job Costing on the Joint Strike Fighter Project 106

Time Period Used to Compute Indirect-Cost Rates 106

FOCUS ON VALUES AND BEHAVIORS 107

Enron's Catastrophic Mistakes

Normal Costing 108

A Normal Job-Costing System in Manufacturing 109

General Ledger and Subsidiary Ledgers 109

Explanations of Transactions 111

Nonmanufacturing Costs and Job Costing 118

Budgeted Indirect Costs and End-of-Accounting-Year

Adjustments 118

Adjusted Allocation-Rate Approach 119

Proration Approach 119

Write-Off to Cost of Goods Sold Approach 121

Choice Among Approaches 121

Multiple Overhead Costs Pools 122

Variations From Normal Costing: A Service-Sector Example 122

Problem for Self-Study 123 • Decision Points 125 • Terms to Learn 126 • Assignment Material 126 • Video Case: Wheeled Coach 137

5 Activity-Based Costing and Activity-Based Management 138

Broad Averaging and Its Consequences 139

Undercosting and Overcosting 139

Product-Cost Cross-Subsidization 140

Simple Costing System at Plastim Corporation 140

Design, Manufacturing, and Distribution Processes 140

Simple Costing System Using a Single Indirect-Cost Pool 141

Refining a Costing System 143

Activity-Based Costing Systems 144

Plastim's ABC System 145

Cost Hierarchies 147

Implementing Activity-Based Costing at Plastim 148

Comparing Alternative Costing Systems 152

Using ABC Systems for Improving Cost Management and Profitability 152

Activity-Based Costing and Department-Costing Systems 155

Implementing ABC systems 156

ABC in Service and Merchandising Companies 157

GLOBAL SURVEYS OF COMPANY PRACTICE: Varying Interest in Activity-Based Costing 158

FOCUS ON VALUES AND BEHAVIORS 159

Successfully Championing ABC

CONCEPTS IN ACTION: Analyzing and Managing Multichannel Banking with Activity-Based Costing 160

Problem for Self-Study 161 • Decision Points 163 • Terms to Learn 164 • Assignment Material 164 • Case: Activity-Based Costing: Columbo Frozen Yogurt 179

Part Two Tools for Planning and Control 180

6 Master Budget and Responsibility Accounting 180

Budgets and the Budgeting Cycle 181

Strategic Plans and Operating Plans 181

Budgeting Cycle and Master Budget 182

Advantages of Budgets 182

Coordination and Communication 182

Framework for Judging Performance 183

Motivating Managers and Other Employees 183

Challenges in Administering Budgets 183

Time Coverage of Budgets 184

Steps in Developing an Operating Budget 184

GLOBAL SURVEYS OF COMPANY PRACTICE: Budget Practices Around the Globe 185

Computer-Based Financial Planning Models 193

CONCEPTS IN ACTION: Web-Enabled Budgeting and Hendrick Motorsports 194

Kaizen Budgeting 195

Activity-Based Budgeting 196

Budgeting and Responsibility Accounting 197
 Organization Structure and Responsibility 197
 Feedback 198
Responsibility and Controllability 198
Human Aspects of Budgeting 199
Budgeting in Multinational Companies 200

FOCUS ON VALUES AND BEHAVIORS 201

Management Accountants: The Heart of the Budgeting Process

Problem for Self-Study 202 • Decision Points 203
APPENDIX: The Cash Budget 203
Terms to Learn 207 • Assignment Material 208 • Video Case:
Ritz-Carlton Hotels 220

7 Flexible Budgets, Direct-Cost Variances, and Management Control 221

The Use of Variances 222
Static Budgets and Static-Budget Variances 222
Flexible Budgets 224
Flexible-Budget Variances and Sales-Volume Variances 225
 Sales-Volume Variances 225
 Flexible-Budget Variances 226
Price Variances and Efficiency Variances For Direct-Cost
Inputs 227
 *Obtaining Budgeted Input Prices and Budgeted Input
 Quantities* 227

GLOBAL SURVEYS OF COMPANY PRACTICE: The Widespread Use of Standard Costs 229

*Data for Calculating Webb's Price Variances
and Efficiency Variances* 229
Price Variances 230
Efficiency Variance 231

CONCEPTS IN ACTION: Weapons Against Waste: Variance Analysis at Sandoz 232

Summary of Variances 233
Journal Entries Using Standard Costs 234
Implementing Standard Costing 235
 Standard Costing and Information Technology 235
 Wide Applicability of Standard Costing 235
Management Uses of Variances 236
 Multiple Causes of Variances 236
 When to Investigate Variances 236
 Performance Measurement Using Variances 236
 Organization Learning 237
 Continuous Improvement 237

FOCUS ON VALUES AND BEHAVIORS 238

Starbucks, McDonald's, and Johnson & Johnson: Making Good Use of Variances

Financial and Nonfinancial Performance Measures 238
Variance Analysis and Activity-Based Costing 239
 Relating Batch Costs to Product Output 239
 Price and Efficiency Variances 240
 Focus on Hierarchy 240

Benchmarking and Variance Analysis 241

Problem for Self-Study 242 • Decision Points 243 • Terms to
Learn 244 • Assignment Material 244 • Case: Management
Control at Starbucks 255

8 Flexible Budgets, Overhead Cost Variances, and Management Control 256

Planning of Variable and Fixed Overhead Costs 257
 Planning Variable Overhead Costs 257
 Planning Fixed Overhead Costs 257
Standard Costing at Webb Company 257
Developing Budgeted Variable Overhead Cost Rates 258
Variable Overhead Cost Variances 259
 Flexible-Budget Analysis 259
 Variable Overhead Efficiency Variance 260
 Variable Overhead Spending Variance 261
 *Journal Entries for Variable Manufacturing Overhead Costs
 and Variances* 263
Developing Budgeted Fixed Overhead Rates 263
Fixed Overhead Cost Variances 264
Production-Volume Variance 265
 Computing the Production-Volume Variance 266
 Interpreting the Production-Volume Variance 267
Journal Entries for Fixed Manufacturing Overhead Costs
and Variances 268

CONCEPTS IN ACTION: Variance Analysis and Standard Costing: Helping Sandoz Manage Overhead Costs 269

FOCUS ON VALUES AND BEHAVIORS 270

The Challenges of Overhead Variances

Integrated Analysis of Overhead Cost Variances 271
 4-, 3-, 2-, and 1-Variance Analysis 271
Production-Volume Variance and Sales-Volume Variance 273

GLOBAL SURVEYS OF COMPANY PRACTICE: Variance Analysis and Control Decisions 274

Financial and Nonfinancial Performance Measures 275
Overhead Cost Variances in Nonmanufacturing and Service
Settings 276
Activity-Based Costing and Variance Analysis 276
 *Flexible Budget and Variance Analysis for Variable Setup
 Overhead Costs* 277
 *Flexible Budget and Variance Analysis for Fixed Setup Overhead
 Costs* 279

Problem for Self-Study 280 • Decision Points 282 • Terms
to Learn 283 • Assignment Material 283 • Case: Teva Sport
Sandals 292

9 Inventory Costing and Capacity Analysis 294

Part One: Inventory Costing for Manufacturing
Companies 295

Variable Costing and Absorption Costing 295
 Data for Stassen Company for 2006 295
 Comparing Income Statements over One Year 297

Explaining Differences in Operating Income 298
Data for Stassen Company for 2006, 2007, and 2008 298
Comparing Income Statements over Three Years 299
Effect of Sales and Production on Operating Income 301
Performance Measures and Absorption Costing 302
Undesirable Buildup of Inventories 303

FOCUS ON VALUES AND BEHAVIORS 303

Bristol-Myers-Squibb's Questionable Inventory Strategy

GLOBAL SURVEYS OF COMPANY PRACTICE: Usage of Variable Costing and Absorption Costing by Companies 304

Proposals for Revising Performance Evaluation 304
Throughput Costing 305

CONCEPTS IN ACTION: Yield Improvements and the Production-Volume Variance at Analog Devices 306

Comparison of Alternative Inventory-Costing Methods 307
Problem for Self-Study 308

Part Two: Denominator-Level Capacity Concepts and Fixed-Cost Capacity Analysis 309

Alternative Denominator-Level Capacity Concepts for Absorption Costing 309
Theoretical Capacity and Practical Capacity 309
Normal Capacity Utilization and Master-Budget Capacity Utilization 310

Effect on Budgeted Fixed Manufacturing Cost Rate 310
Choosing a Capacity Level 311

Product Costing and Capacity Management 311
Pricing Decisions and the Downward Demand Spiral 312
Performance Evaluation 313
External Reporting 314
Regulatory Requirements 316
Difficulties in Forecasting Chosen Denominator-Level Concept 316

Capacity Costs and Denominator-Level Issues 317

Problem for Self-Study 318 • Decision Points 318

APPENDIX: Breakeven Points in Variable Costing and Absorption Costing 319

Terms to Learn 320 • Assignment Material 320 • Video Case: Cavco Industries 331

Part Three Cost Information for Decisions 332

10 Determining How Costs Behave 332

General Issues in Estimating Cost Functions 333
Basic Assumptions and Examples of Cost Functions 333
Brief Review of Cost Classification 335
Cost Estimation 336

The Cause-and-Effect Criterion in Choosing Cost Drivers 336
Cost Estimation Methods 336

GLOBAL SURVEYS OF COMPANY PRACTICE: International Comparison of Cost Classification by Companies 337

Industrial Engineering Method 337
Conference Method 337
Account Analysis Method 338
Quantitative Analysis Methods 338
Steps in Estimating a Cost Function Using Quantitative Analysis 338
High-Low Method 341
Regression Analysis Method 342
Evaluating Cost Drivers of the Estimated Cost Function 344

FOCUS ON VALUES AND BEHAVIORS 345

Boeing's Management Accountants: Embracing Opportunities and Taking Challenges

Cost Drivers and Activity-Based Costing 347
Nonlinearity and Cost Functions 347

CONCEPTS IN ACTION: Activity-Based Costing: Identifying Cost and Revenue Drivers 348

Learning Curves and Nonlinear Cost Functions 349
Cumulative Average-Time Learning Model 350
Incremental Unit-Time Learning Model 350
Setting Prices, Budgets, and Standards 352
Data Collection and Adjustment Issues 353

Problem for Self-Study 354 • Decision Points 356

APPENDIX: Regression Analysis 356

Terms to Learn 363 • Assignment Material 364 • Case: U.S. Brewing Industry 377

11 Decision Making and Relevant Information 378

Information and the Decision Process 379
The Concept of Relevance 380
Relevant Costs and Relevant Revenues 380
Qualitative and Quantitative Relevant Information 381
An Illustration of Relevance: Choosing Output Levels 381
One-Time-Only Special Orders 381
Potential Problems in Relevant-Cost Analysis 383
Insourcing-versus-Outsourcing and Make-versus-Buy Decisions 384
Outsourcing and Idle Facilities 384
Strategic and Qualitative Factors 386
Opportunity Costs and Outsourcing 386

CONCEPTS IN ACTION: The Benefits and Costs of "Offshoring" 387

The Opportunity Cost Approach 388

CONCEPTS IN ACTION: Delta Airlines, the Internet, and Opportunity Costs 389

Carrying Costs of Inventory 390
Product-Mix Decisions Under Capacity Constraints 391
Customer Profitability, Activity-Based Costing, and Relevant Costs 393
Relevant-Revenue and Relevant-Cost Analysis of Dropping a Customer 394

Relevant-Revenue and Relevant-Cost Analysis of Adding a Customer	395
Relevant-Revenue and Relevant-Cost Analysis of Closing or Adding Branches or Segments	395
Irrelevance of Past Costs and Equipment-Replacement Decisions	396
Decisions and Performance Evaluation	398

FOCUS ON VALUES AND BEHAVIORS 399

Beyond the Walls of the Accounting Department

Problem for Self-Study	399	•	Decision Points	401
APPENDIX: Linear Programming 401				
Terms to Learn	404	•	Assignment Material	404
Store 24	417	•	Video Case:	

12 Pricing Decisions and Cost Management 419

Major Influences on Pricing Decisions	420
<i>Customers, Competitors, and Costs</i>	420
<i>Time Horizon of Pricing Decisions</i>	420
Costing and Pricing for the Short Run	421
<i>Relevant Costs for Short-Run Pricing Decisions</i>	421
<i>Strategic and Other Factors in Short-Run Pricing</i>	421
Costing and Pricing for the Long Run	422
<i>Calculating Product Costs for Long-Run Pricing Decisions</i>	422
<i>Alternative Long-Run Pricing Approaches</i>	424
Target Costing for Target Pricing	425
<i>Understanding Customers Perceived Value</i>	425
<i>Doing Competitor Analysis</i>	425
<i>Implementing Target Pricing and Target Costing</i>	425
<i>Value Engineering, Cost Incurrence, and Locked-In Costs</i>	426

CONCEPTS IN ACTION: Extreme Target Pricing and Cost Management at IKEA 427

<i>Value-Chain Analysis and Cross-Functional Teams</i>	428
--	-----

FOCUS ON VALUES AND BEHAVIORS 429

Pricing Decisions Are Never Arbitrary

Achieving the Target Cost per Unit for Provalue	430
Cost-Based (Cost-Plus) Pricing	432
<i>Cost-Plus Target Rate of Return on Investment</i>	432
<i>Alternative Cost-Plus Methods</i>	433
<i>Cost-Plus Pricing and Target Pricing</i>	434

GLOBAL SURVEYS OF COMPANY PRACTICE: Differences in Pricing Practices and Cost Management Methods in Various Countries 435

Life-Cycle Product Budgeting and Costing	436												
<i>Life-Cycle Budgeting and Pricing Decisions</i>	436												
<i>Customer Life-Cycle Costing</i>	438												
Considerations Other than Costs in Pricing Decisions	438												
Effects of Antitrust Laws on Pricing	439												
Problem for Self-Study	441	•	Decision Points	442	•	Terms to Learn	443	•	Assignment Material	443	•	Video Case: Grand Canyon Railway	454

13 Strategy, Balanced Scorecard, and Strategic Profitability Analysis 455

What Is Strategy?	456
Strategy Implementation and the Balanced Scorecard	457
<i>The Balanced Scorecard</i>	457
<i>Quality Improvement and Reengineering at Chipset</i>	458
<i>Four Perspectives of the Balanced Scorecard</i>	459
<i>Implementing a Balanced Scorecard</i>	461
<i>Aligning the Balanced Scorecard to Strategy</i>	461

FOCUS ON VALUES AND BEHAVIORS 462

The New Wave of Accounting: Contributing to Strategy

<i>Features of a Good Balanced Scorecard</i>	462
<i>Pitfalls in Implementing a Balanced Scorecard</i>	463

GLOBAL SURVEYS OF COMPANY PRACTICE: Widening the Performance-Measurement Lens Using the Balanced Scorecard 464

Evaluating the Success of Strategy and Implementation	465
Strategic Analysis of Operating Income	465
<i>Growth Component of Change in Operating Income</i>	467
<i>Price-Recovery Component of Change in Operating Income</i>	468
<i>Productivity Component of Change in Operating Income</i>	469
<i>Further Analysis of Growth, Price-Recovery, and Productivity Components</i>	471

Downsizing and the Management of Capacity	472
---	-----

CONCEPTS IN ACTION: Growth-versus-Profitability Choices of Dot-Com Companies 473

<i>Identifying Unused Capacity for Engineered and Discretionary Overhead Costs</i>	474
<i>Managing Unused Capacity</i>	475

Problem for Self-Study	476	•	Decision Points	479
------------------------	-----	---	-----------------	-----

APPENDIX: Productivity Measurement	480
------------------------------------	-----

Terms to Learn	482	•	Assignment Material	482	•	Video Case: McDonald's Corporation	490
----------------	-----	---	---------------------	-----	---	------------------------------------	-----

14 Cost Allocation, Customer-Profitability Analysis, and Sales-Variance Analysis 492

Purposes of Cost Allocation	493
Criteria to Guide Cost-Allocation Decisions	494
Cost Allocation and Costing Systems	496
<i>Allocating Corporate Costs to Divisions and Products</i>	498

GLOBAL SURVEYS OF COMPANY PRACTICE: Allocation of Corporate and Other Support Costs to Divisions and Departments 499

<i>Implementing Corporate Cost Allocations</i>	500
Customer Revenues and Customer Costs	501
<i>Customer Revenue Analysis</i>	502
<i>Customer Cost Analysis</i>	502
<i>Customer-Level Costs</i>	503

FOCUS ON VALUES AND BEHAVIORS 505

So Is the Customer Always Right?

CONCEPTS IN ACTION: Customer Profitability at Nextel 506

Customer-Profitability Profiles 506

Sales Variances 508

Static-Budget Variance 509

Flexible-Budget Variance and Sales-Volume Variance 509

Sales-Mix and Sales-Quantity Variances 510

Sales-Mix Variance 510

Sales-Quantity Variance 511

Market-Share and Market-Size Variances 512

Market-Share Variance 512

Market-Size Variance 513

Problem for Self-Study 514 • Decision Points 515

APPENDIX: Mix and Yield Variances for Substitutable

Inputs 516

Terms to Learn 519 • Assignment Material 519 • Video Case:

Cost Allocation 530

Revenue-Allocation Methods 548

Stand-Alone Revenue-Allocation Method 549

Incremental Revenue-Allocation Method 549

Other Revenue-Allocation Methods 551

Problem for Self-Study 552 • Decision Points 553 • Terms

to Learn 554 • Assignment Material 554 • Case:

Stanford University 564

16 Cost Allocation: Joint Products and Byproducts 565

Joint-Cost Basics 566

Main Products, Joint Products, and Byproducts 566

Why Allocate Joint Costs? 567

Approaches to Allocating Joint Costs 567

Sales Value at Splitoff Method 569

Physical-Measure Method 570

Net Realizable Value (NRV) Method 571

Constant Gross-Margin Percentage NRV Method 572

Choosing a Method 573

Not Allocating Joint Costs 574

GLOBAL SURVEYS OF COMPANY PRACTICE: Joint-Cost Allocation in the Oil Patch 575

Irrelevance of Joint Costs for Decision Making 575

Sell-or-Process-Further Decisions 575

Joint-Cost Allocation and Performance Evaluation 576

FOCUS ON VALUES AND BEHAVIORS 577

Management Accountants: Overcoming the Pitfalls of Allocating Joint Costs

Pricing Decisions 577

Accounting for Byproducts 577

Production Method: Byproducts Recognized at Time Production Is Completed 578

Sales Method: Byproducts Recognized at Time of Sale 579

CONCEPTS IN ACTION: Chicken Processing: Costing of Joint Products and Byproducts 580

Problem for Self-Study 580 • Decision Points 582 • Terms

to Learn 583 • Assignment Material 583 • Case:

Memory Manufacturing Company 593

17 Process Costing 594

Illustrating Process Costing 595

Case 1: Process Costing with Zero Beginning and Zero Ending Work-in-Process Inventory 596

Case 2: Process Costing with Zero Beginning but Some Ending Work-In-Process Inventory 597

Physical Units and Equivalent Units (Steps 1 and 2) 598

Calculation of Product Costs (Steps 3, 4, and 5) 599

Journal Entries 600

GLOBAL SURVEYS OF COMPANY PRACTICE: Process Costing in Different Industries 600

Case 3: Process Costing with Some Beginning and Some Ending Work-in-Process Inventory 601

Weighted-Average Method 602

First-in, First-out Method 604

Part Five Quality and JIT 531

15 Allocation of Support-Department Costs, Common Costs, and Revenues 531

Allocating Costs of a Support Department to Operating Departments 532

Single-Rate and Dual-Rate Methods 532

Allocation Based on the Demand for or Usage of Computer Services 533

Allocation Based on the Supply of Capacity 534

Budgeted versus Actual Rates 535

Budgeted Usage, Actual Usage, and Capacity-Level

Allocation Bases 535

FOCUS ON VALUES AND BEHAVIORS 536

Finance Executives at Boeing: Setting the Wrong Example

Allocating Costs of Multiple Support Departments 537

Direct Method 538

Step-Down Method 539

Reciprocal Method 540

Overview of Methods 542

GLOBAL SURVEYS OF COMPANY PRACTICE: Allocation of Support-Department Costs 544

Allocating Common Costs 544

Stand-Alone Cost-Allocation Method 544

Incremental Cost-Allocation Method 545

Cost Allocations and Contracts 546

Contracting with the U.S. Government 546

Fairness of Pricing 546

Revenue Allocation and Bundled Products 547

CONCEPTS IN ACTION: Contract Disputes over Reimbursable Costs for U.S. Government Agencies 548

FOCUS ON VALUES AND BEHAVIORS 605

Royal Dutch/Shell: Making Estimations for All the Wrong Reasons

- Comparison of Weighted-Average and FIFO Methods 608
- Standard-Costing Method of Process Costing 609
 - Computations Under Standard Costing* 610
 - Accounting for Variances* 612
- Transferred-In Costs in Process Costing 612
 - Transferred-In Costs and the Weighted-Average Method* 614
 - Transferred-In Costs and the FIFO Method* 615
 - Points to Remember about Transferred-In Costs* 617
- Hybrid-Costing Systems 617

CONCEPTS IN ACTION: Hybrid Costing for Customized Shoes at Adidas 618

- Problem for Self-Study 618 • Decision Points 619
- APPENDIX: Operation Costing 620
- Terms to Learn 623 • Assignment Material 623 • Video Case: Nantucket Nectars 631

18 Spoilage, Rework, and Scrap 632

- Terminology 633
- Different Types of Spoilage 633
 - Normal Spoilage* 633
 - Abnormal Spoilage* 634
- Process Costing and Spoilage 634
 - Count All Spoilage* 634
 - The Five-Step Procedure for Process Costing with Spoilage* 635
 - Weighted-Average Method and Spoilage* 637

GLOBAL SURVEYS OF COMPANY PRACTICE: Rejection in the Electronics Industry 638

- FIFO Method and Spoilage* 638
- Standard-Costing Method and Spoilage* 640
- Journal Entries* 640
- Inspection Points and Allocating Costs of Normal Spoilage* 642
- Job Costing and Spoilage 642
- Job Costing and Rework 644
- Accounting for Scrap 645
 - Recognizing Scrap at the Time of Its Sale* 645
 - Recognizing Scrap at the Time of Its Production* 646

CONCEPTS IN ACTION: Managing Waste and Environmental Costs at Toyota 647

- Problem for Self-Study 648 • Decision Points 648
- APPENDIX: Inspection and Spoilage at Various Stages of Completion in Process Costing 649
- Terms to Learn 651 • Assignment Material 651 • Case: The United Libbey-Nippon Plant 658

19 Balanced Scorecard: Quality, Time, and the Theory of Constraints 659

- Part One: Quality as a Competitive Tool 660**
- The Financial Perspective: Costs of Quality 661

The Customer Perspective: Nonfinancial Measures of Customer Satisfaction 663

- The Internal-Business-Process Perspective: Analyzing Quality Problems and Improving Quality 664
 - Control Charts* 664
 - Pareto Diagrams* 665
 - Cause-and-Effect Diagrams* 665
 - Relevant Costs and Benefits of Evaluating Quality Improvement* 666

FOCUS ON VALUES AND BEHAVIORS 668

The Cost of Quality Failure at Firestone

- Nonfinancial Measures of Internal-Business-Process Quality* 668
- The Learning-and-Growth Perspective for Quality Improvements 669
- Evaluating Quality Performance 669
 - Advantages of COQ Measures* 669
 - Advantages of Nonfinancial Measures of Quality* 669
- Part Two: Time as a Competitive Tool 670**
- Customer-Response Time and On-Time Performance 670
- Time Drivers and Costs of Time 671
 - Uncertainty and Bottlenecks as Drivers of Time* 671

CONCEPTS IN ACTION: Overcoming Bottlenecks on the Internet 672

- Relevant Revenues and Costs of Time* 673
- Part Three: Theory of Constraints and Throughput-Contribution Analysis 675**
- Managing Bottlenecks 675
- Balanced Scorecard and Time-Related Measures 678
- Problem for Self-Study 678 • Decision Points 679 • Terms to Learn 680 • Assignment Material 680 • Video Case: Ritz-Carlton Hotel Company 690

20 Inventory Management, Just-in-Time, and Backflush Costing 691

- Inventory Management in Retail Organizations 691
 - Costs Associated with Goods for Sale* 692
 - Economic-Order-Quantity Decision Model* 692
 - When to Order, Assuming Certainty* 694
 - Safety Stock* 695
- Estimating Inventory-Related Relevant Costs and Their Effects 697
 - Considerations in Obtaining Estimates of Relevant Costs* 697
 - Cost of a Production Error* 697
 - Conflict Between the EOQ Decision Model and Managers' Performance Evaluation* 698
- Just-in-Time Purchasing 698
 - JIT Purchasing and EOQ Model Parameters* 699
 - Relevant Costs of JIT Purchasing* 699
 - Supplier Evaluation and Relevant Costs of Quality and Timely Deliveries* 700
 - JIT Purchasing, Planning and Control, and Supply-Chain Analysis* 701
- Inventory Management and MRP 702

GLOBAL SURVEYS OF COMPANY PRACTICE: Challenges in Securing the Benefits of Supply-Chain Management 703

Inventory Management and JIT Production 703
Effect of JIT Systems on Product Costing 704
Financial Benefits of JIT and Relevant Costs 704

CONCEPTS IN ACTION: After the Encore: Just-in-Time Live Concert CDs 705

Enterprise Resource Planning (ERP) Systems 706
Performance Measures and Control in JIT Production 706

FOCUS ON VALUES AND BEHAVIORS 707

Challenges of Inventory Valuation and JIT Implementation

Backflush Costing 707
Simplified Normal or Standard Costing 707
Accounting for Variances 710
Special Considerations in Backflush Costing 713

Problem for Self-Study 714 • Decision Points 715 • Terms to Learn 716 • Assignment Material 716 • Video Case: Regal Marine 723

Part Six Investment Decisions and Management Control Systems 724

21 Capital Budgeting and Cost Analysis 724

Two Dimensions of Cost Analysis 724
Stages of Capital Budgeting 725
Discounted Cash Flow 726
Net Present Value Method 727
Internal Rate-of-Return Method 728
Comparison of Net Present Value and Internal Rate-of-Return Methods 730
Sensitivity Analysis 730
Payback Method 731
Uniform Cash Flows 731
Nonuniform Cash Flows 732
Accrual Accounting Rate-of-Return Method 732
Evaluating Managers and Goal Congruence Issues 733
Relevant Cash Flows in Discounted Cash Flow Analysis 734

GLOBAL SURVEYS OF COMPANY PRACTICE: Comparison of Capital Budgeting Methods 735

Relevant After-Tax Flows 736
Categories of Cash Flows 737
Managing the Project 740

FOCUS ON VALUES AND BEHAVIORS 741

Long-Term Contracts and Performance Evaluation at Enron

Strategic Considerations in Capital Budgeting 741

GLOBAL SURVEYS OF COMPANY PRACTICE: Global Budgeting at AES Corporation 742

Customer Value and Capital Budgeting 743
Investment in Research and Development 743
Problem for Self-Study 743 • Decision Points 745

APPENDIX: Capital Budgeting and Inflation 746

Terms to Learn 748 • Assignment Material 748 • Video Case: Capital Budgeting at Pearson Education 758

22 Management Control Systems, Transfer Pricing, and Multinational Considerations 759

Management Control Systems 760
Evaluating Management Control Systems 760
Organization Structure and Decentralization 761
Benefits of Decentralization 762
Costs of Decentralization 762
Comparison of Benefits and Costs 763
Decentralization in Multinational Companies 763
Choices About Responsibility Centers 764
Transfer Pricing 764
An Illustration of Transfer Pricing 765
Market-Based Transfer Prices 768
Perfectly Competitive Market Case 768
Distress Prices 768
Cost-Based Transfer Prices 769
Full-Cost Bases 769
Variable Cost Bases 771
Prorating the Difference Between Maximum and Minimum Transfer Prices 771
Dual Pricing 772
Negotiated Transfer Prices 772
A General Guideline for Transfer-Pricing Situations 773

GLOBAL SURVEYS OF COMPANY PRACTICE: Domestic and Multinational Transfer-Pricing Practices 774

Multinational Transfer-Pricing and Tax Considerations 776

CONCEPTS IN ACTION: U.S. Internal Revenue Service, Japanese National Tax Agency, and Transfer-Pricing Games 777

FOCUS ON VALUES AND BEHAVIORS 779

Transfer Pricing Pressures

Problem for Self-Study 779 • Decision Points 781 • Terms to Learn 781 • Assignment Material 782 • Case: Information Systems Corporation 790

23 Performance Measurement, Compensation, and Multinational Considerations 791

Financial and Nonfinancial Performance Measures 792
Choosing Among Different Performance Measures:
Step 1 793
Return on Investment 793
Residual Income 795
Economic Value Added 796
Return on Sales 797
Comparing Performance Measures 798
Choosing the Time Horizon of the Performance Measures:
Step 2 798

GLOBAL SURVEYS OF COMPANY PRACTICE: Key Financial Performance Measures Used Around the Globe 799

- Choosing Alternative Definitions for Performance Measures:
 - Step 3 800
- Choosing Measurement Alternatives for Performance Measures:
 - Step 4 800
 - Current Cost 800
 - Long-Term Assets: Gross or Net Book Value? 801
- Choosing Target Levels of Performance: Step 5 803
- Choosing the Timing of Feedback: Step 6 803
- Performance Measurement in Multinational Companies 804
 - Calculating the Foreign Division's ROI in the Foreign Currency 804
 - Calculating the Foreign Division's ROI in U.S. Dollars 805
- Distinction Between Managers and Organization Units 805
 - The Basic Trade-Off: Creating Incentives versus Imposing Risk 806
 - Intensity of Incentives and Financial and Nonfinancial Measurements 807
 - Benchmarks and Relative Performance Evaluation 807
- Performance Measures at the Individual Activity Level 808
 - Performing Multiple Tasks 808
 - Team-Based Compensation Arrangements 808
- Executive Performance Measures and Compensation 809

CONCEPTS IN ACTION: CEO Compensation and Company Performance 810

Strategy and Levers of Control 811

FOCUS ON VALUES AND BEHAVIORS 811

The Courage to Say No

Problem for Self-Study 813 • Decision Points 814 • Terms to Learn 815 • Assignment Material 815 • Video Case: McDonald's Corporation 824

Appendix A: Global Surveys of Company Practice 825

Appendix B: Recommended Readings 829

Appendix C: Notes on Compound Interest and Interest Tables 833

Appendix D: Cost Accounting in Professional Examinations 841

Glossary 845

Author Index 857

Company Index 859

Subject Index 861