LANGFIELD-SMITH I THORNE I SMITH I HILTON

MANCOLIN

Information for Creating and Managing Value

7e



Information for Creating and Managing Value

- KIM LANGFIELD-SMITH
- HELEN THORNE
- **DAVID SMITH**
- RONALD HILTON





Copyright © 2015 McGraw-Hill Education (Australia) Pty Ltd Additional owners of copyright are acknowledged in on-page credits.

Every effort has been made to trace and acknowledge copyrighted material. The authors and publishers tender their apologies should any infringement have occurred.

Reproduction and communication for educational purposes

The Australian *Copyright Act 1968* (the Act) allows a maximum of one chapter or 10% of the pages of this work, whichever is the greater, to be reproduced and/or communicated by any educational institution for its educational purposes provided that the institution (or the body that administers it) has sent a Statutory Educational notice to Copyright Agency Limited (CAL) and been granted a licence. For details of statutory educational and other copyright licences contact: Copyright Agency Limited, Level 15, 233 Castlereagh Street, Sydney NSW 2000. Telephone: (02) 9394 7600. Website: www.copyright.com.au

Reproduction and communication for other purposes

Apart from any fair dealing for the purposes of study, research, criticism or review, as permitted under the Act, no part of this publication may be reproduced, distributed or transmitted in any form or by any means, or stored in a database or retrieval system, without the written permission of McGraw-Hill Education (Australia) Pty Ltd including, but not limited to, any network or other electronic storage.

Enquiries should be made to the publisher via www.mcgraw-hill.com.au or marked for the attention of the Permissions editor at the address below.

National Library of Australia Cataloguing-in-Publication entry
Author: Langfield-Smith, Kim, author.
Title: Management accounting : information for creating and managing value/Kim Langfield-Smith, Helen Thorne, David Smith, Ronald Hilton.
Edition: 7th edition.
Edition: 7th edition.
ISBN: 9781743075906 (paperback)
Notes: Includes index.
Subjects: Managerial accounting—Australia.
Other Authors/Contributors: Thorne, Helen, 1951- author. Smith, David Alan, author. Hilton, Ronald W., author.
Dewey Number: 658.1511

Published in Australia by

McGraw-Hill Education (Australia) Pty Ltd

Level 2, 82 Waterloo Road, North Ryde NSW 2113

Publishers: Robert Ashworth, Rosemary Noble

Product developers: Cynthia Morali, Jane Roy

Editorial coordinators: Carolina Bodin, Samantha Allemann

Senior production editor: Claire Linsdell

Permissions editor: Haidi Bernhardt

Copy editor: Carol Natsis

Proofreader: Pauline O'Carolan

Indexer: Olive Grove Indexing

Cover design: Christabella Designs

Internal design: David Rosemeyer

Typeset in ChaparralPro-Regular 10/13 by SRNova Private Limited, India

Printed in China on 70 gsm matt art by 1010 Printing International Ltd

Contents in brief

Part 1	INTRODUCTION TO MANAGEMENT ACCOUNTING	2
Chapter 1	Management accounting: information for creating value and managing resources	4
Chapter 2	Management accounting: cost terms and concepts	36
Part 2	COSTS AND COSTING SYSTEMS	70
Chapter 3	Cost behaviour, cost drivers and cost estimation	72
Chapter 4	Product costing systems	122
Chapter 5	Process costing and operation costing	172
Chapter 6	Service costing	220
Chapter 7	A closer look at overhead costs	272
Chapter 8	Activity-based costing	324
Part 3	INFORMATION FOR MANAGING RESOURCES	384
Chapter 9	Budgeting systems	386
Chapter 10	Standard costs for control: direct material and direct labour	442
Chapter 11	Standard costs for control: flexible budgets and manufacturing overhead	486
Chapter 12	Managing and reporting performance	530
Chapter 13	Financial performance measures and incentive schemes	578
Chapter 14	Strategic performance measurement systems	614
Chapter 15	Managing suppliers and customers	652
Chapter 16	Managing costs and quality	704
Part 4	INFORMATION FOR CREATING VALUE	750
Chapter 17	Sustainability and management accounting	752
Chapter 18	Cost volume profit analysis	796
Chapter 19	Information for decisions: relevant costs and benefits	844
Chapter 20	Pricing and product mix decisions	896
Chapter 21	Information for capital expenditure decisions	942

Contents in full

a glance xxii
ledgments xxiv
t digital resources xxvi
/

Part 1 Introduction to management accounting

Chapter 1

N			C 14	C 1 1	1	•	
\mathbf{N}	lanagement	° accounting+ ir	itormation [•]	tor creating va	lue anc	l managing resources	/
	anagement	. accounting in	normation.	ion or outing tu	iac anc	managing recourses	

2

Australian organisations in the twenty-first century	5	Some important considerations in the design of management accounting systems	19
REAL LIFE The increasing competitive pressures in Australia's airline industry	6	Management accounting responses to the	14
What is management accounting?	7	changing business environment	21
REAL LIFE 'Big data' and the changing role of the accountant	9	Learning objectives Summary Key terms	4 22 23
Management accountants within organisations	10	References	23
Management accounting processes and techniques	n	Appendix Key terms (appendix)	24 27
REAL LIFE The accountant in the modern business	17	Review questions	27
environment	13	Exercises	28
Management accounting and strategy	13	Problems	31
Planning and control	17	Cases	33
Costing goods and services	19		

Chapter 2

Management accounting: cost terms and concepts				
Management accounting information	37 REAL LIFE There's plenty of gold, but at			
Cost classifications: different classifications for		what cost?	50	
different purposes	40	Cost flows in a manufacturing business	50	
REAL LIFE Insurance: the importance of		Learning objectives	36	
monitoring and managing costs	41	Summary	53	
Costs across the value chain	44	Key terms	54	
	44	References	54	
REAL LIFE Classifying costs in Australia's hotel		Self-study	55	
industry	45	Review questions	57	
Manufacturing costs	46	Exercises	58	
	40	Problems	61	
Product costs	48	Cases	67	
REAL LIFE The cost of producing motor vehicles				
in Australia	48			

Part 2 Costs and costing systems

Chapter 3

Cost behaviour, cost drivers and cost e	stim
What are cost behaviour, cost estimation and cost prediction?	73
Cost drivers	74
REAL LIFE Cost drivers at Holden Engine Company	77
REAL LIFE Managing costs in challenging times	78
REAL LIFE Cost behaviour and cost management at Qantas	79
Cost behaviour patterns	79
REAL LIFE Cost behaviour in Australian companies	86
REAL LIFE The behaviour of labour costs in the current business environment	87
Using cost behaviour patterns to predict costs	87

nation		72
	Cost estimation	88
	Practical issues in cost estimation	94
	Effect of learning on cost behaviour	95
	Learning objectives	72
	Summary	97
	Key terms	98
	References	98
	Self-study	99
	Appendix	101
	Key terms (appendix)	105
	Review questions	105
	Exercises	107
	Problems	110
	Cases	118

70

122

Chapter 4

Product costing systems

Product costing	124
REAL LIFE The cost of Australian wine	125
REAL LIFE Costing defence contracts	126
REAL LIFE Product costing in small business	128
Flow of costs in manufacturing businesses	128
Allocating overhead costs to products	129
REAL LIFE Product costs at Coopers Brewery	131
Types of product costing systems	133
Job costing: Williams Elevators	137
Process costing: Spritz	148

Learning objectives	122
Summary	151
Key terms	151
References	152
Self-study	152
Appendix	155
Key term (appendix)	156
Review questions	156
Exercises	157
Problems	161
Cases	167

Chapter 5

Process costing and operation costing			172
Process costing at Spritz	174	Process costing using the FIFO method	181
REAL LIFE From trees to timber	174	Process costing and spoilage	184
Process costing with work in process inventories	175	Hybrid costing systems	188
Process costing using the weighted average method	177	Operation costing for batch manufacturing processes	188

	Self-study	197
191	Appendix	200
10.4	Key term (appendix)	204
194	Review questions	204
172	Exercises	205
195	Problems	210
196	Cases	217
196		
	194 172 195 196	 191 Appendix 194 Key term (appendix) 194 Review questions 172 Exercises 195 Problems 196 Cases

Chapter 6 Service costing

What are service organisations?	221
Cost classifications in service organisations	223
REAL LIFE The costs of services provided by Australia's hospitals	226
Estimating service costs	227
REAL LIFE Service costing in the NSW public sector	230
Costing services at Adelaide Bank	232
REAL LIFE The billing system at SimsPartners	238
REAL LIFE The downside of using billable hours to charge for legal services	240
When should firms estimate their service costs?	243

REAL LIFE The costs and benefits of service costs at Hyde and Partners	245
Flow of costs in service firms	246
Costing in retail and wholesale businesses	247
Learning objectives Summary Key terms References Self-study Review questions Exercises Problems Cases	220 249 251 251 254 255 259 267

Chapter 7 A closer look at overhead costs

What are overhead costs?	273
Allocating indirect costs: some general principles	275
REAL LIFE Measuring tsunami recovery costs: an overhead or not?	276
Allocating overhead costs to products	277
lssues in estimating overhead rates	283
REAL LIFE How should FFA allocate its overheads?	285
Allocating indirect costs to responsibility centres	288
REAL LIFE Overhead costs and price setting at Dalrymple Bay Coal Terminal	289

	272
	-/-
Allocating support department costs	290
Learning objectives	272
Summary	298
Key terms	299
References	300
Self-study	300
Appendix	302
Key terms (appendix)	308
Review questions	308
Exercises	309
Problems	313
Cases	320

Chapter 8 Activity-based costing

ith conventional product costing		REAL LIFE ABC in the New Zealand Blood Service	341
3	26	REAL LIFE The adoption of ABC in Australia	
ting at Mason & Cox 3	28	and New Zealand	341
ed costing at Mason & Cox 33	30	Other activity-based costing issues	342
ions about ABC at Mason & Cox 3	331	Activity-based costing in service organisations	344
easuring the costs of the		REAL LIFE Counting the cost of childhood	
ing overhead activities 3	32	immunisation	345
ssigning the costs of manufacturing		Learning objectives	324
	34	Summary	345
		Key terms	346
Activity-based costing in the NSW		References	346
r 3	337	Self-study	347
ed versus traditional product costs		Appendix	350
	38	Key terms (appendix)	358
	0-	Review questions	359
Costing hospital care 3	339	Exercises	360
s benefits of ABC at Mason & Cox 34	40	Problems	365
is benefits of ABC at Mason & Cox 3	40	Cases	376
ld ABC be used? 34	40		
ld ABC be used? 34	40		

Part 3 Information for managing resources

Chapter 9 Budgeting systems

Strategic planning and budgeting systems	387	Behavioural consequences of budgeting	405
Purposes of budgeting	388	REAL LIFE Budgeting practices in Australia	406
Responsibility accounting	388	Zero-base budgeting	408
REAL LIFE 'Beyond budgeting' and other budget adaptations	389	Program budgeting Learning objectives	409 386
The annual budget: a planning tool	390	Summary	410
REAL LIFE Budgeting at the Australian Ballet School	394	Key terms References Self-study	410 411 411
Budgeting at AVJennings Ltd	395	Appendix	414
REAL LIFE Budgeting for major events: the Olympic Games	396	Review questions Exercises Problems	418 419 423
Budget administration	405	Cases	437

-

386

384

324

Chapter 10

Chapter 11

Standard costs for control: direct material and direct labour 442				
Controlling costs	443	Standard costs for product costing	461	
Setting standards	444	Learning objectives	442	
Developing standards at R.M. Williams	447	Summary Key terms	464 464	
Calculating standard cost variances	449	References	465	
REAL LIFE Cost pressures and variance analysis in hospitals	454	Self-study Appendix Key terms (appendix)	465 468 469	
Investigating significant variances and taking		Review questions	470	
corrective actions	454	Exercises	471	
Cost control through assigning responsibility	459	Problems Cases	474 482	
Standard costing and behaviour	461			

Standard costs for control: flexible budgets and manufacturing overhead 486 **Flexible budgets** Activity-based budgeting 487 505 Flexible overhead budget: R.M. Williams Learning objectives 486 490 Summary 508 Overhead application in a standard costing Key terms 509 system 492 References 509 Calculating overhead cost variances Self-study 492 509 Appendix 512 Overhead cost performance report 498 Key terms (appendix) 513 Standard costs for product costing 499 Review guestions 513 Exercises 514 Flexible budgets in service organisations 501 Problems 518 An appraisal of standard costing systems 501 Cases 526

504

REAL LIFE Adapting standard costing systems for modern times

Ance 530 531 Responsibility centres 534 More complex structures 536 532 REAL LIFE Shared services to enhance customer value and manage costs 538 533 Financial performance reporting 539 533 Transfer pricing 544

Chapter 12

Managing and reporting performance

Purposes of performance measurement	531
Characteristics of effective performance measurement systems	532
REAL LIFE Principles for reporting performance outcomes	533
Structuring for control: decentralisation	533

Learning objectives	530	Review questions	558
Summary	553	Exercises	559
Key terms	554	Problems	562
References	554	Cases	571
Self-study	555		

578
597 598
598
598 601
602
604 610

Chapter 14			
Strategic performance measurement	systen	ns	614
The problems with using traditional financial performance measures in isolation	615	How successful are balanced scorecards? Does non-financial performance lead to	629
The advantages of non-financial measures	617	financial performance?	630
Selecting operational measures	617	Benchmarking	632
The limitations of non-financial performance measures	620	Learning objectives Summary	614 635
The balanced scorecard	621	Key terms References	636 636
REAL LIFE Managing performance at IAG	623	Self-study	637
REAL LIFE Measuring impact in charitable organisations	624	Review questions Exercises Problems	639 640 642
Strategy maps	624	Cases	648
REAL LIFE Customising the balanced scorecard	626		
Developing a balanced scorecard for the Cooktown Bus Company	627		

Chapter 15 Managing suppliers and customers

Supply chain management	653	Managing time	675
REAL LIFE A product not a commodity: a new supply chain for Tasmanian wool	655	Learning objectives Summary Key terms	652 680 680
REAL LIFE Driving supply chain improvements at Coles	656	References Self-study	681 682
Managing suppliers	656	Appendix	685
Managing inventory	661	Key terms (appendix) Review questions	687 688
Managing customers	668	Exercises	689
REAL LIFE Is JIT too risky?	669	Problems Cases	692 700
REAL LIFE Managing customers with social media	671		

Chapter 16

Managing costs and quality

Cost management	705
Activity-based management	706
REAL LIFE Lean thinking at the city of	
Melbourne	710
Business process re-engineering	713
Life cycle costing	714
REAL LIFE Cost management in the Australian	
wine industry	715
Target costing	717
Managing throughput	720

Managing quality 722 REAL LIFE Managing costs, throughput and quality for customer value: Flinders Medical Centre 722 Learning objectives 704 Summary 728 Key terms 728 References 729 Self-study 730 **Review** guestions 731 Exercises 732 Problems 736 Cases 746

Part 4 Information for creating value

Chapter 17

Sustainability and management accoun	iting		752
Corporate sustainability	753	Sustainability and management accounting	761
REAL LIFE Corporate responsibility reporting around the globe	755	Recognising and measuring economic, environmental and social impacts	761
Sustainability and stakeholders	759	REAL LIFE The valuation of environmental	
REAL LIFE Measuring sustainability performance		impact – PUMA and beyond	763
at Arrium	760	Environmental management accounting	763

704

652

750

Environmental costs	764	Su
Sustainability and supply chain management	768	
REAL LIFE A life cycle analysis of carbon emissions	768	
REAL LIFE Environmental costing at GH Michell & Sons	771	
REAL LIFE A sustainability scorecard at Westpac	772	
Strategic performance measurement systems and sustainability	775	

Sustainability and capital expenditure analysis	777
Learning objectives	752
Summary	780
Key terms	781
References	781
Self-study	782
Review questions	785
Exercises	786
Problems	789
Cases	792

Chapter 18

Cost volume profit analysis			796
CVP analysis at the Melbourne Theatre Compar	iy 797	Practical issues in CVP analysis	813
The break-even point	799	REAL LIFE Making the most of our coffee culture	815
The break-even formula	799	An activity-based approach to CVP analysis	815
REAL LIFE The importance of the break-even		Financial planning models	818
point at Linneys	800	Learning objectives	796
REAL LIFE A sundae too far away	802	Summary	821
Graphing cost volume profit relationships	802	Key terms References	822 822
Target net profit	804	Self-study	822
Using CVP analysis for management decision making	806	Appendix Key terms (appendix) Review questions	825 828 828
CVP analysis with multiple products	810	Exercises	829
REAL LIFE Salmon—a fishy success story	812	Problems Cases	832 838
Including income taxes in CVP analysis	812		

Chapter 19

Information for decisions: relevant co	sts and	d benefits	844
The management accountant's role in		REAL LIFE Outsourcing, you can bank on it	861
decision making	845	REAL LIFE Sustainable solutions for by-products	867
REAL LIFE What role do accountants play in decision making?	847	Implications of activity-based cost analysis for decisions	868
Relevant information	849	Incentives for decision makers	869
Identifying relevant costs and benefits	850	Pitfalls to avoid when using accounting data	007
Relevant information for some common decisions	854	for decisions	870

Learning objectives	844	Key terms (appendix)	879
Summary	871	Review questions	879
Key terms	872	Exercises	880
References	872	Problems	882
Self-study	873	Cases	891
Appendix	875		

Chapter 20

Pricing and product mix decisions

Major influences on pricing decisions	897	Product mix decisions
REAL LIFE Battling for Australia's skies	900	Learning objectives
Economic profit-maximising models	900	Summary Key terms
Pricing strategies	903	References
Strategic pricing of new products	910	Self-study Appendix
Competitive bidding	911	Key terms (appendix)
Legal restrictions on setting prices	912	Review questions Exercises
REAL LIFE Proving predatory pricing: a challenge for the ACCC	913	Problems Cases
REAL LIFE The penalties of price fixing	914	

Chapter 21

Information for capital expenditure decisionsCapital expenditure decisions943Post-completion audits of capital
expenditure decisionsCash flows943

	/40	Justifica
The capital expenditure approval process	944	technolo
Capital expenditure decisions at the		REAL LI
Meadowleigh Medical Centre	945	The limit
Discounted cash flow analysis	947	expendi
Comparing two alternative investment project	s 952	Learni
REAL LIFE Fleet renewal decisions at Qantas:		Summ Key te
the A380 and B787	955	Refere
Accounting for uncertainty using real-options		Self-st
analysis	956	Appen
Other techniques for analysing capital		Review Exerci
expenditure proposals	957	Proble
Performance evaluation: a behavioural issue	961	Cases
Income taxes and capital expenditure analysis	962	

expenditure decisions	971
Justification of investments in advanced technologies	971
REAL LIFE What drives investments in technology?	972
The limitations of traditional capital	
expenditure analysis	974
Learning objectives	942
Summary	975
Key terms	976
References	977
Self-study	977
Appendix	980
Review questions	984
Exercises	985
Problems	988
Cases	993

xiv

Preface

One of the challenges we always face in writing new editions of this book is to capture current thinking and practice in management accounting, which are in a continual state of change. Unlike the financial accounting area, there are no accounting standards or legally enforceable practices in management accounting. Management accounting takes place within organisations and can be quite specific to each business. Also, to understand the nature of management accounting practice we need to understand the broader aspects of business practice across a range of areas including strategy, marketing, human resource management, operations management and organisational behaviour. Management accounting both draws on and contributes to these areas.

Our approach in presenting this subject to students and managers is to focus on cutting-edge management accounting as practised by leading organisations in Australia and overseas, while at the same time acknowledging that some firms are satisfied with more traditional approaches.

Since the first edition of this book appeared in the early 1990s, there have been dramatic changes in thinking about the role of management accounting in organisations. Once it was sufficient to describe management accounting as being concerned with providing information for planning and control, and for decision making. However, the role of management accounting is now more complex. It is now concerned with the processes and technologies that enable the effective use of organisational resources to support managers in enhancing customer and shareholder value. Supply chain management approaches provide a framework for integrating contemporary cost management and performance measurement. The issue of sustainability is now increasingly important as businesses seek to understand and manage any adverse impact they have on the environment and society.

The processes and technologies of management accounting that enhance shareholder and customer value are evolving over time and require an intimate knowledge of the nature of the business, its markets, its strategy and its people. Over the decades the practice of management accounting has developed to become more integrated with the process of management, and less a part of the practice of accounting, with management accountants playing a significant role as part of the management team.

The book has been written primarily as a text for one- or two-semester undergraduate management accounting courses. The references at the end of each chapter provide guidance on additional readings. With its description of current practice and strong emphasis on the new developments in management and management accounting, this book also provides a sound foundation for a management accounting unit within an MBA course.

While the origins of the text can be traced to the US text, Managerial Accounting, by Ronald Hilton, it has always differed from its US counterpart. It has been developed using major cases based on real Australian businesses, and it includes numerous illustrations—'Real lifes'—of current management accounting practices of organisations in Australia, New Zealand and the wider Asia-Pacific region. The Australian book takes a broad perspective in viewing management accounting as the efficient and effective use of resources, supporting managers in the improvement of customer and shareholder value. The rapidly changing business environment is seen as having implications for the development of new approaches to management accounting. We sincerely welcome any comments or suggestions from the lecturers and students who use this text.

Kim Langfield-Smith Helen Thorne David Smith

About the authors

Kim Langfield-Smith



Kim has a BEc from the University of Sydney, a MEc from Macquarie University and a PhD from Monash University. She is a fellow of CPA Australia and the Institute of Chartered Accountants in Australia (ICAA), and a graduate of the Australian Institute of Company Directors. She is a Vice-provost at Monash University as well as Professor of Management Accounting. Her prior appointments were at La Trobe University, the Universities of Melbourne and Tasmania, and the University of Technology, Sydney. Before entering academic life Kim worked as an accountant in several commercial organisations.

Her research interests are in the area of management control systems, and her research has been published in many journals, including Accounting, Organizations and

Society; Journal of Management Accounting Research; Management Accounting Research; Behavioral Research in Accounting; Journal of Accounting Literature; and Journal of Management Studies.

Kim continues to play an active role in the accounting profession. She is chair of the Professional Qualifications Advisory Committee of CPA Australia, and a former member of the International Accounting Education Standards Board (IAESB), representing the ICAA and CPA Australia.

Helen Thorne



Helen has a BEc and DipAcc from Flinders University, and a PhD from the University of Adelaide. She is an adjunct professor in the International Graduate School of Business at the University of South Australia. Helen has also held appointments in the Graduate School of Management and the Commerce Department at the University of Adelaide.

Her research focuses on contemporary approaches to management accounting, including activity-based costing and strategic performance measurement systems, and she has published in journals, including Journal of Accounting Literature; Journal of Cost Management; Advances in Management Accounting; and Australian Accounting Review.

Before commencing her academic career, Helen worked as a management accountant with a major international company. Since then she has maintained her interests in the 'real world'. She is a member of CPA Australia and has undertaken consulting work in management accounting for a number of organisations in the manufacturing and service industries.

David Smith



David has a BCom (Honours) from La Trobe University and a PhD from Monash University. He is a professor of management accounting in the Department of Accounting at Monash University and has previously held appointments at the University of Melbourne and La Trobe University.

David's research is in the area of management control systems, with a particular focus on performance measurement, and his research has been published in journals including Accounting, Organizations and Society; Management Accounting Research; Behavioral Research in Accounting; Journal of Accounting Literature; and Accounting, Auditing and Accountability Journal.

David is actively involved in the accounting profession and is a current board member of the Accounting and Finance Association of Australia and New Zealand (AFAANZ). David is also a member of the Chartered Institute of Management Accountants' (CIMA) Centre of Excellence Australasia Research Panel.

About this edition

In response to requests from adopters, each chapter contains a number of changes. On average, more than 40 per cent of the end-of-chapter learning activities (review questions, exercises, problems and cases) are either completely new or include new data. Major changes to each chapter, including changes to the end-of-chapter material, are described in the table below.

New to this edition	Points of interest
Chapter 1 Management accounting: information for creating	ng value and managing resources
 Extensive revisions simplify and modernise the material. The Wendy's case that was the chapter focus in prior editions has been replaced with a range of more recent case examples. The 'Strategy and the management accountant' material has been updated. New 'Real lifes' covering big data and the management accountant, and the accountant in the modern environment have been added. Other 'Real lifes' have been updated. Seventeen of the 42 end-of-chapter questions are new or include new data. 	Management accounting is presented as supporting managers in their role of enhancing customer and shareholder value through the efficient and effective use of organisational resources. The link between strategy and management accounting lays a foundation for the strategic focus that permeates this book.
Chapter 2 Management accounting: cost terms and concep	ots
• This classic chapter, which lays the foundation by introducing students to a range of commonly used cost concepts, has not required any significant updates, although 19 of the 42 end-of-chapter questions are new or include new data.	This chapter introduces students to the terminology of management accounting before covering concepts in more detail later in the book.
Chapter 3 Cost behaviour, cost drivers and cost estimation	1
 One new 'Real life' has been added and another has been updated, and linked to end-of-chapter questions. Fifteen of the 43 end-of-chapter questions are new or include new data. Several questions allow students to respond by constructing an Excel[®] spreadsheet. 	This chapter maintains the current approach to explaining cost behaviour, cost drivers and cos estimation.
Chapter 4 Product costing systems	
 One 'Real life' example has been updated. Seventeen of the 43 end-of-chapter questions are new or include new data. 	Chapters 4 and 5 focus on traditional approaches to product costing, focusing primarily on job costing systems.
Chapter 5 Process costing and operation costing	
 Twenty of the 45 end-of-chapter questions are new or include new data. 	Chapters 4 and 5 focus on traditional product costing approaches of process costing and operation costing.
Chapter & Service costing	
 Nineteen of the 48 end-of-chapter questions are new or include new data. 	This chapter presents traditional and activity- based approaches to the costing of services, ir a range of different service contexts.

Chapter 7 A closer look at overhead costs	
 Twenty-two of the 45 end-of-chapter questions are new or include new data. 	Chapter 7 helps students develop a deeper understanding of the processes for allocating overhead costs to products. It includes an introduction to activity-based approaches to estimating overhead costs.
Chapter 8 Activity-based costing	
 Three new 'Real life' examples have been provided—one looking at costing in the UK's National Health Service, one on the use of activity-based costing in the New Zealand Blood Service, and one focusing on calculating the cost of childhood immunisations. Eighteen of the 49 end-of-chapter questions are new or include new data. 	This chapter describes common problems with traditional product costing systems and outlines the steps used in activity-based costing.
Chapter 9 Budgeting systems	
 A new 'Real life' on budgeting for major events has been added and the 'Real life' on budgeting practices in Australia has been updated. Twenty-two of the 42 end-of-chapter questions are new or include new data. 	This chapter presents a step-by-step guide to the budgeting process and describes some of the behavioural issues associated with budgeting.
Chapter 10 Standard costs for control: direct material and c	direct labour
 The 'Real life' on cost pressures and variance analysis in hospitals has been updated. Material on standards and behaviour has been brought together in a single section. Twenty of the 46 end-of-chapter questions are new or include new data. 	Chapter 10 focuses on traditional approaches to estimating and controlling product costs through standard costing, focusing on the material and labour components.
Chapter 11 Standard costs for control: flexible budgets and	manufacturing overhead
 A new 'Real life' on adapting standard costs for modern times is included. Nineteen of the 45 end-of-chapter questions are new or include new data. 	This chapter explains flexible budgets and standard costing for overhead. It also outlines the criticisms and advantages of standard costing.
Chapter 12 Managing and reporting performance	
 This chapter has a new title to better reflect its focus. Some of the chapter has been restructured: the sections on the purposes and the characteristics of performance measurement systems have moved here from Chapter 14. A new 'Peal life' on the principles for reporting. 	Modern and traditional approaches to measuring financial performance are integrated with responsibility accounting performance reports. Includes real-time reporting, the impact of shared services and team-based

- A new 'Real life' on the principles for reporting performance outcomes has been added.
 Sinteen of the up and of abarter questions are never
- Sixteen of the 45 end-of-chapter questions are new or include new data.

Modern and traditional approaches to measuring financial performance are integrated with responsibility accounting performance reports. Includes real-time reporting, the impact of shared services and team-based structures. Transfer pricing scenarios clearly illustrate issues of goal congruence and incentives.

Chapter 13 Financial performance measures and incentive s	chemes
 The chapter has a new title, to reflect the change in focus from 'reward systems' to the more modern term 'incentive systems'. The 'Real life' examples have been updated and linked to end-of-chapter questions. Sixteen of the 42 end-of-chapter questions are new or include new data. 	This chapter presents internal financial reports and traditional financial measures, and an expanded section on value-based management. Up-to-date material on incentive systems is also included.
Chapter 14 Strategic performance measurement systems	
 The chapter title and the learning objectives have been revised to reflect changes in coverage of some material in the chapter. The section on strategic performance measurement systems, including balanced scorecards and strategy maps, has been reorganised. A new 'Real life' on measuring performance in charitable organisations has been added. Twenty-one of the 44 end-of-chapter questions are new or include new data. 	This chapter focuses on the design of strategic performance measurement systems—financial and non-financial performance measures, the design of strategic performance measurement systems, and benchmarking.
Chapter 15 Managing suppliers and customers	
 The material has been updated throughout the chapter. Two new 'Real life' examples have been added on supply chain management at Coles, and using social media to manage customers. Other 'Real lifes' have been updated. Twenty-one of the 46 end-of-chapter questions are new or include new data. 	Supply chain management is covered, with a focus on managing suppliers, inventory, customers and time. Activity-based approaches to the analysis of supplier and customer costs and performance indicators are outlined.
Chapter 16 Managing costs and quality	
 The material has been revised throughout the chapter. The section on throughput accounting has been simplified. A new 'Real life' example on lean thinking has been added. Other 'Real lifes' have been updated. Eighteen of the 50 end-of-chapter questions are new or include new data. 	Cost management techniques include activity-based management, business process reengineering, life cycle costing, target costing and managing throughput. Quality concepts and cost of quality reporting are explained.
Chapter 17 Sustainability and management accounting	
 Major revision and modernisation of the material throughout the chapter. Modern sustainability frameworks of the GRI and integrated reporting are now included. A number of new exhibits and four new 'Real life' examples have been added on corporate responsibility around the globe, sustainability reporting, sustainability scorecards, and the valuation of environmental impact. Fifteen of the 41 end-of-chapter questions are new or include new data. 	Chapter 17 explains sustainability reporting and the implications for management accounting systems and techniques, including cost analysis and management, performance measurement systems, and capital expenditure analysis.

Chapter 18 Cost volume profit analysis	
 Two new 'Real lifes' on the use of CVP analysis in the Tasmanian salmon farming industry and in the management of coffee shops. Twenty-seven of the 46 end-of-chapter questions are new or include new data. 	Cost volume profit analysis is presented as a tool to model the profit impact of changes in selling prices, costs and product mix, and formula-based and graphical approaches. Methods for incorporating activity-based concepts are also included.
Chapter 19 Information for decisions: relevant costs and be	nefits
 The section on costing by-products has been moved from the Appendix to the main chapter. New 'Real life' examples on the role of accountants in management decision making and sustainable solutions for by-products have been added. Nineteen of the 46 end-of-chapter questions are new or include new data. 	This chapter demonstrates how management accounting information can be used for a variety of tactical decisions: accept or reject a special order; add or delete a product, service or department; and sell a joint product or process it further.
Chapter 20 Pricing and product mix decisions	
 Material on the legal constraints on pricing has been updated. Two new 'Real life' examples on the airline industry and price fixing have been included. Fourteen of the 44 end-of-chapter questions are new or include new data. 	This chapter includes factors that influence pricing strategies, models of cost-based pricing, and the legal restrictions of pricing behaviours. Techniques for considering product mix decisions are also covered.
Chapter 21 Information for capital expenditure decisions	
 Includes a new section on real-options pricing analysis. The 'Real lifes' have been updated. Sixteen of the 47 end-of-chapter questions are new or include new data. 	This chapter presents techniques for analysing data for long-term investment decisions. The limitations of using traditional techniques to justify investments in advanced technologies are covered.

About the digital resources

Management Accounting 7e comes with McGraw-Hill Connect—a digital teaching and learning environment that responds to contemporary students' needs. Connect brings every learning resource that accompanies this text together in one place, and can also integrate and interact with your LMS.

Connect provides access to interactive versions of selected end-of-chapter exercises and problems with worksheet and graphing functionality to allow students to practise what they are learning. Quizzes have been prepared for each chapter to provide the opportunity to check knowledge and understanding of chapter concepts.

Instructors also have access to an Instructor Manual including solutions to end-of-chapter activities, PowerPoint® presentations and the testbank.

Golden Company's total overhead cost at various levels of activity are presented below	
Month Machine-Hours Total Overhead Cost March 49000 \$190480 April 39000 \$154280	
May 59000 \$24280 June 69000 \$24680	
Assume that the overhead cost above consists of utilities supervisory salanes and n breakdown of these costs at the 39000 machine-hour level of activity is as follows	
Utilities (vanable) \$ 58500 Supervisory salaries (fixed) 45000 Maintenance (mixed) 60780	Draw a couple graph of the cost behaviour for each of the following costs incurred by the Valley View Hospital. The hospital measures monthly activity in patient days. Label both axes and the cost line in each graph 1. The cost of food vanes in proportion to the number of patient days of activity in January. the hospital provided 2800 patient days of care
Total overhead cost \$ 164290	and food costs amounted to \$22,400
The company wants to break down the maintenance cost into its variable and fixed cost el	lements 25600 Teacher
Required:	2000
 Estimate how much of the \$242880 of overhead cost in June was maintenance cost (I may be helpful to first determine how much of the \$242880 consisted of utilities salaries "Think about the behavior of variable and fixed costs within the relevant range intermediate calculations.) 	s and supervisory
Maintenance cost in June \$	8 5000
 Using the high-low method estimate a cost formula for maintenance. (Round the "V unit" to 2 decimal places and "Fixed cost" to the nearest dollar amount.) 	/ariable court per
Y = 5 + 5 X	Patient Days

Gweneth Norris BCom, MCom, PhD, FCPA, CMA Gweneth prepared the Instructor Manual.

Gweneth retired from Charles Darwin University as Professor of Management (Accounting), where she was responsible for the accounting program and accounting research. She also spent many years at the University of South Australia and at Deakin University in Geelong, Victoria. She is a past vice-president of the Institute of Certified Management Accountants (ICMA), and worked on the Geelong Branch Council of CPA Australia for 11 years, serving terms as chair and deputy chair. Gweneth was also a presenter of the ICMA graduate course 'Advanced Management Accounting' in Asia, teaching in both Singapore and Hong Kong.

Robyn Parry BBus (Acc), MEd, MComm, CPA, AFAANZ

Robyn prepared the testbank, PowerPoint slides and online chapter quizzes.

Robyn has been an academic for over 12 years. She has taught accounting for decision making, financial and management accounting, corporate accounting, accounting theory and auditing in undergraduate and postgraduate accounting programs. Robyn is part of the academic team at the University of Queensland and was previously with James Cook University (Brisbane) and CQ University (Brisbane).

Robyn's career has evolved through public practice, including in the mining, construction and government sectors, before moving to accounting education. She has a keen interest in the development of accounting education and promoting the professional accounting bodies to students.

Text at a glance

'Real life features

Theory is one thing-but what happens in reality? These short case studies provide examples of management and management accounting in action largely within Australian and New Zealand organisations.

REALLIFE COST BEHAVIOUR AND COST MANAGEMENT AT QA cells is very important in increasingly competend of the key to increasingly competend tops in archarge. If is a scharge, of of tight cost management despite an anvironment. During the fate 1990s, the Asian final The SARS pendemic in Asia. Then, in 2007, Clentes ing effects of a failed takeover bid from Art

Key terms/margin definitions

Key terms are bolded in the text where they first appear, defined in the margin and listed at the end of the chapter. Use the end-of-chapter Key terms checklist to test yourself when you finish the chapter. The definitions are also repeated in a full glossary at the end of the book.

Chapter introduction

The chapter introduction is an overview of the material to be covered, including links to relevant topics in previous chapters.

3 Introduction

	ugned to activities that ev performed for each
71-0-1	name activities to activities
idil favroi dalahi	the sensing of pains, pressing in a lo
other party spin-1	Product laval product-matching
es) tesh eng (galada jaan	the cost of developing a new product la The number of products may be the co-
producte or product females	cost has no obvious cost draver
the costs recurred	unteresting example of this concept
ant c by	

Exhibits

These visual overviews of concepts, flow charts, handy checklists, examples of documents and worked examples add another dimension to the topics covered and help to reinforce learning.

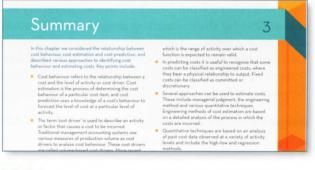


References

The end-of-chapter references list material quoted in the chapter and provide opportunities to undertake additional in-depth research on specific topics.

Chapter summary

The chapter summary is presented in dot point form for easy reading and revision, and links back to the learning objectives.



REFERENCES

- es to rise after Qan net.au/news/ net.au/news/ 23130.htm. viewed 6 August 2010. a new workplace, jobs morph to s The Woll Street Journal, March 3
- all, E 2010, 'Short works
- creating-working-poor/story-eófrimt 5r2rXD8. accessed 13 August 2010. InterNall, RH & Langlield-Smith, K 199 A Study of Five Monufact. iety of CPAs. Melbo
- GM Holden 2010, www.holden.com.eu/corporate/ holden/environmentfacilities, viewed 2 March 2 Gregg: P 2004, Address to UBS Australian Transp
- Conference, 31 March Isir, JF, Black, WC, Babin, B, Anderson, RE & Tatham, RL 2 iate Data Analysis Ionel, Upper Saddi au, 26 March, www.news.com.eu/but
- wine and the work of the second state of the second state and the second state and the second state second st

Self-study problems and solutions

These problems provide the perfect opportunity to better understand and revise key topics and techniques covered in the chapter.

Self-stu			5
SELF-STUDY PRO	BLEM 1: USING THE HIGH-L	OW METHOD	
	ncurred the following costs in its Loans Depar		
Month	Number of loans	Cost	
January	6100	\$90 000	
February	5300	87 000	
March	4900	76 200	
April	4800	78 100	
May	5050	80 700	
June	3050	61 000	
July	4500	74 500	

Revised end-of-chapter material

Every chapter contains a significant amount of new and updated end-of-chapter material.

Review questions

Exercises

Short-answer questions test your knowledge of key words, terms and concepts presented in the chapter.

Re	view Questions
18.1	Briefly explain how the break-even point is calculated: (a) In sales units. (b) In sales dollars. (c) Using graph. LO 18.1, 18.2, 18.3
18.2	What information is conveyed by a cost volume profit (CVP) graph in addition to a company's break-even point? How does a CVP graph differ from a profit volume graph? LO 18.2, 18.3
18.3	Explain how the formula to astimate break-even sales revenue can be adjusted to estimate the sales revenue required to achieve a target net profit (both before and after tax). LO 18.4
18.4	Malake Oyster Company has increased its variable costs per kilogram of oysters harvested. However, its fixed costs decreased as a result of these changes. Why might this happen and how will these changes affect the firm's break-even sales volume? LO 18.5

Problems

Longer, more in-depth problems allow you to apply quantitative techniques as well as theoretical concepts to organisational situations.



Appendices

To help you extend and build your knowledge, end-ofchapter appendices provide in-depth information on specific topics.

These exercises provide an opportunity to apply some of the techniques and concepts relating to the chapter.

Exercises E3.21 Cost drivers: service firm Cost drivers: service firm Friendly Silves Travel is a travel agency that has branches in many major shopping centres. A typical branch employs five full-time staff: a manager and four customer service staff. Casual customer service staff are called in for periods of high demand and are normally employed for three-hour shifts. Customer service staff book fights for customers on most imagor airlines. These staff also assist in identifying accommodation and rental car options for customers. LO3.2 Prepare a list of five major costs likely to be incurred by Friendly Skies Travel. sible could define that on

Cases

Cases provide more comprehensive scenarios that require you to demonstrate your skills in applying both quantitative techniques and theoretical issues. The cases provide opportunities for higher-level analysis and may require you to integrate material from more than one chapter.



Appendix

COST STRUCTURE AND OPERATING LEVERAGE

COST STRUCTURE AND OPERATING LEVERAGE The cost structure of an organization is the relative proportion of its fixed and variable costs. "Cost structures differ widely between industries and between firms within an industry. A company using a computer-inegrated manufacturing system has a large investment in plant and equipment, which evails in a cost structure dominated by fixed costs. In contrast, the cost structure of a retail store has a much higher proportion of variable cost sparitoully a standare). The highly automated manufacturing firm is capital intensive, whereas the retail store is labour-intensive. In significantics cost structure has a significant effect on the sensitivity of its profit to charge in bulking A convenient way to portuga firms cost structure is aboven in Exhibit 18, which describes the cost structures of there firms A B and C Albusing these there from hase the time sides revenue (550) 0000 and (550) 00000 an

structures of three firms: A. B and C. Although these three firms have the same sales revenue (\$500,000) and



18

Acknowledgments

We would like to thank a number of people who have helped us with the development of this textbook, including the hundreds of management accounting students we have taught over many years and the numerous managers and management accountants with whom we have interacted. Their enthusiasm, comments, questions and experience have assisted our understanding and appreciation of management accounting. We also thank our academic colleagues from around Australia and New Zealand who have provided feedback or reviewed parts of the manuscript. They include the following:

Seventh edition

(including their affiliation at that time) Rafiuddin Ahmed, James Cook University Zahir Ahmed, Auckland University of Technology Ranjith Appuhami, Macquarie University David Bedford, University of Technology, Sydney Mandy Cheng, University of New South Wales Glenda Davis, University of Western Sydney John Donald, Deakin University Yuan Yuan Hu, Massey University David Huelsbeck, The University of Melbourne Zubaidah Ismail, Edith Cowan University Kenneth Ke, Curtin University Sumit Lodhia, University of South Australia Kathy Michael, Victoria University Carly Moulang, Monash University Greg Van Mourik, Monash University Jayce Naidoo, Victoria University Nirmala Nath, Massey University John Niven, ADFA Jean Raar, Swinburne University of Technology Vg Sridharan, Deakin University Natasja Steenkamp, Central Queensland University Nicole Sutton, University of Technology, Sydney

We thank Ian Langfield-Smith for providing the technical check, Gweneth Norris for her assistance with the solutions manual and Robyn Parry for her work on the accompanying digital resources. We would also like to express our gratitude to the people at McGraw-Hill Education who guided this book through the publication process. In particular, we thank Robert Ashworth, Rosemary Noble, Carolina Bodin, Cynthia Morali, Claire Linsdell and Marisa Rey Bulen.

Previous editions

(including their affiliation at that time) Robyn Alcock, Central Queensland University Vimala Amirthalingam, Curtin University Vicki Baard, Macquarie University Kevin Baird, Macquarie University Pamela Baker, Macquarie University David Bedford, University of Technology, Sydney Dawn Cable, Macquarie University Andrew Chew, University of Technology, Sydney Bruce Clayton, Deakin University Michael Clemens, RMIT University Henry Collier, University of Wollongong Glenda Davis, University of Western Sydney Steven Dellaportas, RMIT University Colin Dolley, Edith Cowan University Lyndal Drennan, Queensland University of Technology John Dumay, University of Sydney Chris Durden, James Cook University Evangeline Elijido-Ten, Swinburne University of Technology David Emsley, Macquarie University Hai Wei Fan, University of Canberra Aldonio Ferriera, Monash University Peter Foreman, Deakin University Carolyn Fowler, Victoria University of Wellington Geoff Frost, University of Sydney Lynn Gallagher, Queensland University of Technology Peter Graham, University of Canberra Vicki Golsby, Flinders University Bruce Gurd, University of South Australia Eva Heidhues, Macquarie University Kerry Jacobs, La Trobe University Stephen Jones, Open Polytechnic Louise Kloot, Swinburne University of Technology Dawn Lamminmaki, Griffith University Michele Leung, University of Western Australia Phil Lignier, Central Queensland University Noel Loganathan, Northern Territory University Tony McMurtrie, The University of Adelaide Suzie Maloney, University of Southern Queensland Bernie Mills, The University of Adelaide

Graeme Mitchell, University of Western Sydney Jodie Moll, The University of Manchester, Manchester **Business School** Reza Monem, The University of Queensland David Moore, University of Tasmania Shane Moriarity, The University of Auckland Carly Moulang, Monash University Greg Van Mourick , Monash University Nihal Mudalige, Monash University Rahat Munir, Macquarie University Nirmala Nath, Massey University Gweneth Norris, Deakin University Robert Nyamori, Massey University Majella Percy, Queensland University of Technology Ron Peterson, The University of the South Pacific Graham Purchas, University of Canterbury Jim Richards, Murdoch University Sue Robertson, RMIT University

Graeme Russell, Deakin University Suzanne Salmon, La Trobe University John Sands, Griffith University Axel Schulz, The University of Melbourne Yvonne Shanahan, University of Canterbury Sharelle Simmons, The University of Queensland Ciorstan Smark, University of Western Sydney David Smith, The University of Melbourne Nava Subramaniam, Griffith University Mohammad Igbal Tahir, Griffith University Carol Tilt, Flinders University Ted Watts, University of Wollongong Kim Watty, RMIT University Carly Webster, Monash University Robert Williams, University of Wollongong Maria Xydias-Lobo, Flinders University Prem Yappa, RMIT University Mary Zajkowski, The Open Polytechnic of New Zealand



Q Students ...

Want to get better grades? (Who doesn't?)

Ready to interact with **engaging online assignments** that help you apply what you've learned? (*You need to know how to use this stuff in the real world* ...)

Need **new ways** to study before the big test? (A little peace of mind is a good thing ...)



Α



With McGraw-Hill Education Connect

STUDENTS GET:

- Interactive, engaging content
- Opportunities to **apply** concepts learned in the course
- Immediate feedback on performance (No more wishing you could call your lecturer at 1 am)
- **Quick access** to quizzes, interactive practice materials and much more (*All the resources you need to be successful are right at your fingertips*)

Q Want to access Connect?

Connect is available if your lecturer has elected to use **Connect** for your course. Ask your lecturer about access.

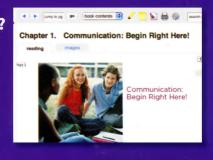
Want an online, searchable version of your textbook?

Connect Plus ebook

Α

Q

Connect Plus provides a searchable online version of your book that is integrated with your other online tools. It also offers features like topic search, direct links from assignments, jump to page number and adjustable text size. Available separately or as an upgrade.



Q Lecturers ...

Would you like your **students** to show up for class better **prepared**? (*Let's face it, learning is much more fun if everyone is engaged and prepared*...)

Want ready-made **interactive assignments**, student progress reporting and auto-assignment grading? (*Spend less time marking* ...)

Want an **instant view of student or class performance** relative to learning objectives? (*No more wondering if students understand* ...)

Need to **collect data and generate reports** required for administration or accreditation? (*Say goodbye to manually tracking student learning outcomes*...)

report types

Find out all you can do with Connect Reports.

view our success lips

assignment results

See assignment scores listed by student and color-coded into high, medium, and low score ranges, and customize results.

student performance

See an individual student's submitted assignment scores, and the status of assignments-in-progress.

assignment statistics

See this section's highest, lowest, and average scores on each assignment

A With McGraw-Hill Education Connect

LECTURERS GET:

- Simple assignment management, therefore
 less administration time
- The ability to identify struggling students at the click of a button
- Auto-graded assignments, quizzes and tests to save time
- Detailed visual reporting, where student and section results can be viewed and analysed at a glance
- Sophisticated online testing capabilities
- A **filtering and reporting** function that allows easy assigning and reporting on materials that are correlated to accreditation standards and learning outcomes



Find out more about Connect and Connect Plus

To see how you can access these exceptional digital resources, go to www.mcgraw-hill.com.au/digital/connect



Part 1 Introduction to management accounting

CHAPTER 1

Management accounting: information for creating value and managing resources

CHAPTER 2

Management accounting: cost terms and concepts

The first part of this book introduces management accounting, its purpose and basic concepts.

In Chapter 1, management accounting is defined as processes and techniques that are focused on the effective and efficient use of organisational resources to support managers in their task of enhancing both customer value and shareholder value. We outline the recent changes in the business environment that have influenced the development of management practices and management accounting systems, and management accounting is distinguished from financial accounting.

The processes and techniques of management accounting that are used to enhance value include systems to support the formulation and implementation of strategy; process improvement and cost management techniques to help develop and manage a firm's competitive advantage; planning and control systems to help managers manage resources; and estimates of the cost of products (goods or services) to support strategic and operational decisions.

In this first chapter we also consider factors that influence the design of a management

accounting system, including an awareness of the behavioural implications of management accounting information, and the costs and benefits of designing, producing and using management accounting information. We also recognise that the design of management accounting systems can be influenced by a wide range of factors such as the organisation's competitive environment, strategies, size, and organisational culture, as well as by institutional forces that encourage the adoption of management accounting practices that are used by other organisations.

Chapter 2 introduces some of the basic concepts and terminology used in management accounting. Management accounting systems often include costing, budgeting and performance measurement systems. Modern management accounting systems may also include cost management systems, which focus on the identification and elimination of wasteful activities.

Much of this chapter focuses on the different ways in which costs can be classified and reported to managers. These classifications include variable and fixed costs, direct and indirect costs, and

2

controllable and uncontrollable costs. We use the concept of the value chain to explore the various cost classifications, paying particular attention to the classification of manufacturing costs as direct material, direct labour and manufacturing overhead costs. The key message in this chapter is that costs can be classified in different ways to meet the different information needs of managers.

Chapter 1

Management accounting: information for creating value and managing resources



Learning objectives

1.1	Describe the changes that have taken place in the business environment in recent years.				
1.2	Define management accounting in terms of value creation.				
1.3	Describe the major differences between management accounting and financial accounting information.				
1.4	Explain where management accountants are located in organisations.				
1.5	Describe the major processes that management accounting systems use to create value and manage resources.				
1.6	Explain the basic concepts of strategy and how management accounting systems can support strategies.				
1.7	Recognise how various management accounting techniques have been developed to support a firm's competitive advantage.				
1.8	Explain how planning and control mechanisms can be used to support resource management.				
1.9	Explain how costing systems can provide information to support a range of operational and strategic decisions.				
1.10	Describe the factors that may influence the design of management accounting systems, including behavioural issues, cost-benefit trade-offs and the implications of contingency and institutional theories.				
1.11	Identify the organisational responses and management accounting responses to changes in the				

- 1.12 (After studying the appendix) describe how the focus of management accounting has evolved.
- **1.13** (After studying the appendix) discuss the professional qualifications that are relevant to becoming an accountant, and the ethical standards to which accountants must adhere.

Introduction

We all deal with many different types of organisations as part of our daily lives. Manufacturers, retailers, service providers, not-for-profit organisations' and government enterprises provide us with a vast array of goods and services. These organisations seem very different, but they have three things in common. First, every organisation should have a stated purpose and objectives. For example, a police department may state that its purpose is to make the community a safer place in which to live. The specific objectives of an organisation flow from its purpose. In the case of the police department, the objectives may be to reduce the crime rate by 50 per cent and decrease the number of road fatalities by 30 per cent within the next five years. The objectives of organisations generally focus on adding value from the perspective of major stakeholders—in particular, owners and customers.

Second, in pursuing objectives managers need to make many decisions, and for this they need information. The information needs of managers extend across financial, production, marketing, legal and environmental areas. Generally, the larger the organisation, the more complex are its operations, and the greater is management's need for information. In the police department, senior officers will need information to assess progress towards objectives. Relevant information could include crime statistics for each quarter of the year, explanations of why crime rates may be meeting or exceeding targets, and details of the strategies put into place to reduce crime.

Last, to help achieve the organisation's objectives, managers need to manage their resources effectively and efficiently. Resource management can involve using resources more effectively (i.e. achieving better outcomes) and using resources more efficiently (i.e. using fewer resources to achieve an objective). In the police department, management will need to know the cost of new crime-reduction programs that have been put in place.

Management accounting information helps to satisfy the information needs of managers so that they can manage resources effectively and efficiently and add value for customers and the organisation as a whole.

We start our discussion by exploring the business environment in which management accounting has evolved and operates.

AUSTRALIAN ORGANISATIONS IN THE TWENTY-FIRST CENTURY

In the last 20 years, many Australian organisations have become exposed to global competition for the first time. Australian companies can no longer ignore the activities of companies operating in Asia, Europe and the United States (US). Import tariffs, quotas and, over time, subsidies have been gradually reduced or eliminated. Many overseas companies are now direct competitors for Australian businesses. For example,



1 In New Zealand, not-for-profit organisations (NFPs) are known as public benefit organisations, reflecting the fact that they are generally organised for socially beneficial purposes.