



Contents

<i>Preface</i>	ix
Part One The Foundations of TQM	1
1 Understanding quality	3
Quality, competitiveness and customers	3
Understanding and building the quality chains	5
Managing quality	11
Quality starts with understanding the needs	13
Quality in all functions	15
Chapter highlights	16
2 Models and frameworks for total quality management	18
Early TQM frameworks	18
Quality award models	21
The four Ps and three Cs of TQM – a new model for TQM	26
Chapter highlights	28
3 Leadership and commitment	29
The total quality management approach	29
Commitment and policy	31
Creating or changing the culture	32
Effective leadership	35
Excellence in leadership	39
Chapter highlights	41
Part One Discussion Questions	43
Part Two Planning	45
4 Policy, strategy and goal deployment	47
Integrating TQM into the policy and strategy	47
The development of policies and strategies	61
Chapter highlights	62

5 Partnerships and resources	64
Partnering	64
Role of purchasing in partnerships	66
Just-in-time (JIT) management	69
Resources	72
Chapter highlights	74
6 Design for quality	76
Design, innovation and improvement	76
The design process	77
Quality function deployment (QFD) – the house of quality	81
Specifications and standards	86
Design in the service sector	87
Failure mode, effect and criticality analysis (FMECA)	90
The links between good design and managing the business	92
Chapter highlights	94
Part Two Discussion Questions	97
Part Three Performance	99
7 Performance measurement frameworks	101
Performance measurement and the improvement cycle	101
Costs of quality	106
The process model for quality costing	110
A performance measurement framework	116
The implementation of performance measurement systems	125
Chapter highlights	127
8 Self-assessment, audits and reviews	130
Frameworks for self-assessment	130
Methodologies for self-assessment	138
Securing prevention by audit and review of the management system	142
Internal and external management system audits and reviews	144
Chapter highlights	147
9 Benchmarking	149
The why and what of benchmarking	149
The purpose and practice of benchmarking	151
The role of benchmarking in change	155
Communicating, managing stakeholders and lowering barriers	156
Choosing benchmarking-driven change activities wisely	159
Chapter highlights	161
Part Three Discussion Questions	163

Part Four Processes	165
10 Process management	167
Process management vision	167
Process Classification Framework and process modeling	169
Process flowcharting	181
Leadership, people and implementation aspects of process management	187
Chapter highlights	189
11 Process redesign/engineering	192
Re-engineering the organization?	192
What is BPR and what does it do?	194
Processes for redesign	195
The redesign process	198
BPR – the people and the leaders	203
Chapter highlights	204
12 Quality management system	206
Why a quality management system?	206
Quality management system design	208
Quality management system requirements	211
Other management systems and models	221
Improvements made to quality management systems	222
Chapter highlights	223
13 Continuous improvement	225
A systematic approach	225
Some basic tools and techniques	227
Statistical process control	235
Some additional techniques for process design and improvement	238
Taguchi methods for process improvement	242
Six sigma	245
The 'DRIVE' framework for continuous improvement	251
Chapter highlights	257
Part Four Discussion Questions	261
Part Five People	263
14 Human resource management	265
Introduction	265
Strategic alignment of HRM policies	266
Effective communication	269
Employee empowerment and involvement	272
Training and development	274
Teams and teamwork	276
Review, continuous improvement and conclusions	277
Organizing people for quality	278
Quality circles or kaizen teams	282
Chapter highlights	285

15 Culture change through teamwork	288
The need for teamwork	288
Running process management and improvement teams	290
Teamwork and action-centered leadership	293
Stages of team development	298
Personality types and the MBTI	302
Interpersonal relations – FIRO-B and the Elements	304
Chapter highlights	313
16 Communications, innovation and learning	315
Communicating the quality strategy	315
Communicating the quality message	318
Communication, learning, education and training	319
A systematic approach to education and training for quality	322
Starting where and for whom?	324
Turning education and training into learning	327
The practicalities of sharing knowledge and learning	330
Chapter highlights	331
Part Five Discussion Questions	334
Part Six Implementation	335
17 Implementing TQM	337
TQM and the management of change	337
Planning the implementation of TQM	339
Sustained improvement	342
Chapter highlights	346
Part Six Discussion Questions	347
Case Studies	349
Reading, using and analyzing the cases	349
C1✓ TQM in BT Retail	353
C2 Sustainable business improvement in a global corporation – Shell Services	361
C3✓ Texas Instruments Europe – leadership and commitment to total quality and business excellence	372
C4✓ TQM implementation and policy deployment at ST Microelectronics	379
C5✓ DRIVER for change in BBC Resources	390
C6✓ Best Value in Harrogate Borough Council	396
C7✓ Unilever HPCE – the self-assessment journey	408
C8✓ Business improvement strategies in the Highways Agency	425
C9✓ Process management at Celestica Ltd	432
C10 Developing a business management system (BMS) in QinetiQ	443
C11 Business excellence through speed and teamwork in Philips Electronics	454
<i>Bibliography</i>	471
<i>Index</i>	479