Contents

St Of Cases	XIII
rofoco	****
cknowledgments	xxiii
traduction: BUSINESS EVOLUTION	1
The Evolution of the Customer Satisfaction Concept 1.1 What Is Customer Satisfaction? 1.2 Evolution of Customer Satisfaction Methods 1.3 Evolution of Company Integration	3 3 11 13
Survival in a Rapidly Changing World 2.1 Practice Systematic Development of Skill 2.2 Treat Management as a Coherent System 2.3 Focus on People and Their Purposes 2.4 Integrate Best Practices	19 22 28 30
3.1 Four Practical Revolutions in Management 3.2 Evolution of Our Understanding 3.3 Four Levels of Practice	41 43 47
e First Revolution: CUSTOMER FOCUS	10
Change in the Work Concept	51
5.2 Customer Concerns 5.3 Integration of Concerns	60
1	troduction: BUSINESS EVOLUTION The Evolution of the Customer Satisfaction Concept 1.1 What Is Customer Satisfaction? 1.2 Evolution of Customer Satisfaction Methods 1.3 Evolution of Company Integration 1.4 Continuing Evolution Survival in a Rapidly Changing World 2.1 Practice Systematic Development of Skill 2.2 Treat Management as a Coherent System 2.3 Focus on People and Their Purposes 2.4 Integrate Best Practices 2.5 Financial Benefit Developing a Unique Organizational Capability 3.1 Four Practical Revolutions in Management 3.2 Evolution of Our Understanding 3.3 Four Levels of Practice First Revolution: CUSTOMER FOCUS Change in the Work Concept 4.1 Market-In 4.2 Customers 4.3 Philosophy-In and Philosophy-Out Evolution of Customer Focus and Its Challenges 5.1 Three Stages of Customer Focus 5.2 Customer Concerns 5.3 Integration of Concerns

The Second Revolution: CONTINUOUS IMPROVEMENT	71	PART 2D—FINDING NEW DIRECTIONS	
PART 2A—INTRODUCTION: FUNDAMENTALS AND VOCA	ABULARY	13 Proactive Improvement	19
6 Improvement as a Problem-Solving Process 6.1 Management by Process 6.2 WV Model of Continuous Improvement 6.3 Continuous Improvement of Processes for All Types of Wor 6.4 Continuous Improvement and the Scientific Method	73 73 74 ck 84 92	13.1 Collecting Data for Proactive Improvement 13.2 Language Data and Use of Semantics 13.3 Toward Standard Tools and Steps for Proactive Improvement 13.4 Customer Visitation as a Method of Collecting Proactive Improvement Data	20 20 21 22
PART 2B—MANAGING EXISTING PROCESSES		14 Applying Proactive Improvement to Develop New Products 14.1 Stage 1: Develop Understanding of Customers' Needs	23
7 Process Discovery and Management 7.1 Thinking in Terms of Process 7.2 Process Discovery 8 Process Control and Variation 8.1 A Typical Example of (Mishandling) Variation 8.2 Making the Most of Variation	95 95 98 107 108 109	and Environment 14.2 Stage 2: Convert Understanding into Requirements 14.3 Stage 3: Operationally Define Requirements for Downstream Development 14.4 Stages 4 and 5: Generating Concepts and Selecting the Concept 14.5 Expanding View of WV Model and Proactive Improvement	23 24 26 27 27
8.3 Process Control and Process Improvement 8.4 Continuing the Typical Example of Variation	117 118	The Third Revolution: TOTAL PARTICIPATION	28
9 Reactive Improvement and the 7 Steps Method 9.1 Identifying the Problem 9.2 Standard Steps and Tools 9.3 The 7 Steps: A Case Study 9.4 The 7 QC Tools	123 125 131 133 145	PART 3A—INTRODUCTION 15 Engagement and Alignment of Organization Members 15.1 Engaged Employees for a Rapidly Changing World 15.2 Explicit Joining of Improvement and Routine Work 15.3 Processes and People	28: 28: 28: 29:
10 Management Diagnosis of the 7 Steps of Reactive Improved 10.1 General Guidelines for Managers Diagnosing a QI Story 10.2 Step-by-Step Guidelines for Managers Diagnosing a QI St 10.3 Case Study for Diagnosis of the 7 Steps 10.4 Run PDCA and Develop Skill	149	PART 3B—INDIVIDUAL SKILL DEVELOPMENT 16 Coordinating Behavior 16.1 Societal Networking Case Study of the CQM Study Group on Conversation 16.2 Expansion of the Principles of Sementics	297
11 Process Management Mobilization Case Study—Teradyne 11.1 Introduction to the Teradyne Mobilization Story 11.2 Introduction of the 7 Steps 11.3 Experience Using the 7 Steps 11.4 Improving Mobilization 11.5 Process Discovery and Process Control	175 175 175 177 177 178 181	16.2 Expansion of the Principles of Semantics 16.3 Some Types and Models of Conversations 16.4 Burchill Case Study from the Navy 17 Leading Change 17.1 Technical Skill 17.2 Human Skill 17.3 Conceptual Skill	303 303 323 329 331 332 333
PART 2C—ONE-TIME EFFORTS		18 Self-Development	341
12 Planning Projects or Tasks 12.1 The 9 Steps Compared with the 7 Steps 12.2 The 9 Steps Mobilization at Teradyne 12.3 A Teradyne Illustration of the 9 Steps Use 12.4 Relationship of the 9 Steps to Other Methods	183 184 185 186 196	18.1 Lessons from the Non-Business World 18.2 Local Improvement in Absence of a Supportive Environment 18.3 The Bottom Line	342 347 358

PA	RT 3C—TEAM SKILL DEVELOPMENT	
19	Teamwork Skill	361
	19.1 Some Fundamentals	361
	19.2 Some Types of Teams	367
	19.3 Models for Team Development	396
PA	RT 3D—ORGANIZATIONAL SKILL DEVELOPMENT	
20	Initiation Strategies	405
	20.1 CEO Involvement	405
	20.2 Case Study: Teradyne Strategy for Introduction	415
21	Infrastructure for Mobilization	423
	21.1 Create Explicit Structures for Mobilization	423
	21.2 A General Model for Mobilization: The 7 Infrastructures	425
	1. Goal Setting (Vision/Mission)	427
	2. Organization Setting	431
	3. Training and Education	434
	4. Promotional Activities	441
	5. Diffusion of Success Stories	441
	6. Awards and Incentives	444
	7. Monitoring and Diagnosis	445
22	Phase-In	453
	22.1 Orientation Phase	455
	22.2 Empowerment Phase	456
	22.3 Alignment Phase	458
	22.4 Evolution of the Parallel Organization	459
	22.5 Common Patterns of Phase-In	461
23	U.S. Focused Strategies for Phase-In	467
	23.1 Benchmarking	468
	23.2 Six Sigma	472
	23.3 Cycle-Time Reduction	479
PA	RT 3E—ORGANIZATIONAL UNIQUENESS	
24	Hoshin Management	503
	24.1 Hoshin Management and Its Parts	503
	Phase 1—Strategic Planning and Setting the Hoshin (Proactive)	508
	Phase 2—Hoshin Deployment	510
	Phase 3—Monitoring the Hoshin; Controlling with Metrics (Control)	518
	Phase 4—Check and Act (Reactive)	521
	Phase 5—President's Diagnosis	521

	24.2 Management by Objectives and Conventional Business Planning 24.3 Hoshin Management at Analog Devices	52
		53
25	Leading Process Improvement	54
	25.1 Modeling Personal Improvement	54
	25.2 Employee Development at NIMS	54
	25.3 Company Strategies	55
	25.4 Individual Practice of CAPD by Managers	56
26	Further Case Studies in Mobilization	57
	26.1 Teradyne Story Continued	57
	26.2 HP Story	58
	26.3 Analog Devices Story	59
	26.4 Tom Powell's Research	60
27	The Practice of Breakthrough	60
	27.1 Process versus Business Breakthrough	60
	27.2 Case Studies and a Model of Business Breakthrough	610
	27.3 Biggest Obstacle to Business Breakthrough	620
	27.4 Integration of Ideas	630
Th	e Fourth Revolution: SOCIETAL NETWORKING	643
28	Networking and Societal Diffusion: Regional and National Networking	645
	28.1 The Japanese Model	646
	28.2 Taking a Lesson from Japan—CQM	654
	28.3 Comparison of National Methods	662
	28.4 Use of Indirect Influence	671
29	Ongoing Integration of Methods	675
	29.1 Applying Idealized Design to Hoshin Management	676
	29.2 Structural Process Improvement Case Study	681
	29.3 SerVend Case Study	688
Aft	erword	699
Abo	out the Authors	705
Ref	erences	707
Ind	ex	729