



TABLE OF CONTENTS

I. CERTIFICATION OVERVIEW	I-1	4. Comparisons	III-36
CQIA EXAM	I-3	C. REFERENCES	III-40
CQIA BODY OF KNOWLEDGE	I-7	IV. TEAM ROLES & RESPONSIBILITIES	IV-1
II. QUALITY CONCEPTS	II-1	A. TEAM PURPOSES	IV-2
A. QUALITY DEFINITIONS	II-2	B. TEAM BENEFITS	IV-3
1. Quality Defined	II-3	C. TYPES OF TEAMS	IV-4
2. Organizational Quality Steps	II-4	1. Synopsis of Team Applications	IV-7
3. Quality Terms	II-7	D. ROLES AND RESPONSIBILITIES	IV-8
B. QUALITY PLANNING	II-12	1. Sponsor/Champion Role	IV-9
1. Quality Principles	II-14	2. Leader Role	IV-9
2. Quality Policies	II-15	3. Facilitator Role	IV-10
3. Strategic Quality Goals	II-16	4. Team Member Role	IV-12
4. Tactical Quality Goals	II-17	E. MEASUREMENT OF PERFORMANCE	IV-13
5. Quality Maturity	II-18	F. REFERENCES	IV-16
C. IMPORTANCE OF EMPLOYEES	II-20	V. TEAM FORMATION & DYNAMICS	V-1
1. Individual Involvement	II-20	A. INITIATING TEAMS	V-2
2. Employee Empowerment	II-21	1. Team Building	V-3
3. Quality of Work Life	II-23	2. Team Activities	V-4
D. SYSTEMS AND PROCESSES	II-25	3. Team Charter	V-6
E. VARIATION	II-31	4. Team Guidelines	V-7
1. System Variation	II-31	5. Team Meeting Structure	V-8
2. Special vs Common Cause	II-33	6. Reward & Recognition	V-10
3. Sources of Variability	II-35	B. SELECTING TEAM MEMBERS	V-12
F. REFERENCES	II-37	1. Team Size	V-12
III. QUALITY BENEFITS & PHILOSOPHIES	III-1	2. Team Diversity	V-13
A. BENEFITS OF QUALITY	III-2	C. TEAM STAGES	V-14
1. Stakeholder Groups	III-2	D. TEAM BARRIERS	V-17
2. Stakeholder Quality Benefits	III-4	1. Common Team Problems	V-18
3. MBNQA	III-7	2. Groupthink	V-19
B. QUALITY PHILOSOPHIES	III-9	3. Conflict Resolution	V-21
1. Philip Crosby	III-9	E. DECISION MAKING	V-24
2. W. Edwards Deming	III-16	F. REFERENCES	V-26
3. Joseph M. Juran	III-28		

VI. CONTINUOUS IMPROVEMENT	VI-1	E. QUALITY AUDIT	VIII-21
A. INCREMENTAL & BREAKTHROUGH	VI-2	1. Types of Audits	VIII-22
1. Incremental Improvement	VI-3	2. Audit Responsibilities	VIII-27
2. Breakthrough Improvement	VI-4	3. Audit Preparation/Execution	VIII-29
3. Reengineering	VI-5	4. Audit Report	VIII-30
4. Six Sigma	VI-6	5. Audit Terms	VIII-31
5. Kaizen	VI-8	F. REFERENCES	VIII-34
6. Non-Valued-Added Activities	VI-9	IX. CUSTOMER-SUPPLIER RELATIONSHIPS	IX-1
7. Mistake Proofing	VI-11	A. INTERNAL CUSTOMERS	IX-2
8. Cycle Time Reduction	VI-12	B. INTERNAL CUSTOMER FEEDBACK	IX-6
9. Concurrent Activities	VI-14	C. EXTERNAL CUSTOMERS	IX-7
B. IMPROVEMENT CYCLES (PDCA/PDSA)	VI-15	1. Customer Expectations	IX-11
C. PROBLEM SOLVING PROCESSES	VI-17	2. Customer Needs	IX-12
1. Classical Steps	VI-18	3. Customer Satisfaction	IX-14
2. DMAIC	VI-20	4. Customer Service Principles	IX-15
3. Root Cause Analysis	VI-23	5. Customer Function Deployment	IX-20
D. IMPROVEMENT BARRIERS	VI-25	D. EXTERNAL CUSTOMER FEEDBACK	IX-25
E. REFERENCES	VI-25	E. INTERNAL SUPPLIERS	IX-31
VII. BASIC QUALITY TOOLS	VII-1	F. INTERNAL SUPPLIER FEEDBACK	IX-32
A. CAUSE-AND-EFFECT DIAGRAMS	VII-2	G. EXTERNAL SUPPLIERS	IX-33
B. FLOW CHARTS	VII-4	1. Supplier Ratings	IX-35
C. DATA TYPES	VII-7	2. Supplier Communications	IX-36
D. CHECK SHEETS	VII-8	3. Supplier Certification	IX-42
E. HISTOGRAMS	VII-11	H. EXTERNAL SUPPLIER FEEDBACK	IX-44
F. PARETO DIAGRAMS	VII-16	I. REFERENCES	IX-48
G. SCATTER DIAGRAMS	VII-20	X. APPENDIX	X-1
H. CONTROL CHARTS	VII-24	A. INDEX	X-3
1. Variables	VII-27	B. ANSWERS	X-17
2. Attributes	VII-35		
3. Interpretation	VII-43		
I. REFERENCES	VII-50		
VIII. QUALITY MANAGEMENT TOOLS	VIII-1		
A. BRAINSTORMING	VIII-2		
B. AFFINITY DIAGRAMS	VIII-3		
C. BENCHMARKING	VIII-5		
D. QUALITY COSTS	VIII-8		
1. Cost Categories	VIII-10		
2. Cost Improvement	VIII-15		
3. Cost Bases	VIII-16		