

CONTENTS

Chapter 1 **UNDERSTANDING QUALITY**

- Stakeholders
- What is Quality?
- Evolution of the Concept of Quality
- Five Approaches to Defining Quality
- Dimensions of Quality
- Quality of Design and Quality of Conformance
- Factors Affecting Quality
- Cost of Quality
- For Discussion

Chapter 2 **TOTAL QUALITY MANAGEMENT**

- Origin of TQM
- Basic Approach to TQM
- Gurus of Total Quality Management
- Deming's Cycle or the PDCA Cycle
- Basic Quality Processes
- Philip B. Crosby
- Kaoru Ishikawa
- Making TQM Work
- Characteristics of TQM
- Potential Benefits of TQM
- For Discussion

Chapter 3 **PLANNING FOR TOTAL QUALITY MANAGEMENT**

- Top Team Selection
- Large Companies
- Small/medium-sized companies

Structured Planning
Key Elements of TQM Strategy
Lessons for Successful TQM Implementation
For Discussion

Chapter 4
ORGANIZING FOR TOTAL QUALITY MANAGEMENT

Organizing for TQM: The Systems Approach
Organizing for Quality Implementation
Transition from a Traditional to a TQM Organization
Small Groups and Employee Involvement
Implementation of TQM
Factors in TQM Implementation
Framework for TQM Implementation
Pre-requisites for TQM implementation
For Discussion

Chapter 5
CHANGE MANAGEMENT – THE DRIVER OF TOTAL QUALITY

Definition of Organizational Change Management
OCM Best Practices
The Human Resource Element in Change Management
Role of Human Resource in TQM
Identification of Human Factors in TQM
Top Management Involvement
For Discussion

Chapter 6
BUSINESS PROCESS RE-ENGINEERING

Business Process Re-Engineering
Total Quality Management and Business
Process Re-Engineering
Characteristics of BPR which Facilitate TQM
Characteristics of Business Process Re-engineering which hamper TQM
TQM Considerations When Re-Engineering
Differences between TQM and BPR
For Discussion

Chapter 7
QUALITY FUNCTION DEPLOYMENT

Quality Function Deployment
History of QFD

Four Phase Model of Quality Function Deployment
HOQ as a Technique of Product Planning
Steps in Designing the House of Quality
Benefits and Limitations of QFD
QFD and TQM
Benchmarking
Japanese Industrial Visits
Practices of Xerox
Types of Benchmarking
Limitations of Benchmarking
For Discussion

Chapter 8

QUALITY CIRCLES

History of Quality Circle Movement
Concept and Definition of Quality Circle
Objectives of Quality Circles
The Structure of Quality Circles
Factors in Quality Circle Implementation
Benefits of Quality Circle Activities
Quality Circle Obstacles
For Discussion

Chapter 9

QUALITY ASSURANCE AND QUALITY CONTROL

Quality Control
Quality Assurance
Quality Assurance Vs Quality Control
Costs and Benefits of Quality Assurance Frameworks
Quality Control
Techniques of Quality Control
SQC for Process Control
The Role of Control Charts
Statistical Basis of Control Charts
For Discussion

Chapter 10

PERFORMANCE MEASUREMENT

Why measure performance?
Cost of Quality Measurement
A Simple Performance Measurement Framework
Performance Measurement and Reward Systems under TQM

TQM Performance Measurement Systems
For Discussion

Chapter 11
TOTAL PRODUCTIVE MAINTENANCE

TPM: What does it mean?
History of TPM
Objectives of TPM:
Similarities and Differences Between TQM and TPM
Principles of TPM
Organization Structure for TPM Implementation
Pillars of TPM:
How to start office TPM?
P Q C D S M in Office TPM:
For Discussion:

Chapter 12
JUST-IN-TIME (JIT)

Objectives of JIT
Key Elements of JIT
Advantages of JIT System
Limitations of JIT
JIT, TQM and TPM Implementation
For Discussion

Chapter 13
SERVICE QUALITY

Characteristics of Services
Service Quality
Dimensions of Service Quality
Factors Influencing Expectation
Service Quality Models
The Technical and Functional Quality Model
The Six-Sigma Methodology
Linking TQM and Six-Sigma to Business Strategy of Service Organizations
For Discussion

Chapter 14
INTERNATIONAL STANDARDS ORGANIZATION (ISO)

The ISO Standards
ISO 9000:
Purpose of ISO 9000

ISO 9000:2000 Requirements
ISO 9001:
ISO 9001:2000 Cross Reference Map
How Does QS-9000 Differ from ISO-9000?
Associate Responsibilities
For Discussion:

Chapter 15

SIX-SIGMA

Historical Overview
Objectives of Six-Sigma
DMAIC Six-Sigma Approach:
DMADV Six-Sigma Approach:
DMAIC Versus DMADV:
New Roles For Managers And Employees
Six-Sigma Roles and Responsibilities
Benefits of Six-Sigma:
Limitations of Six-Sigma
For Discussion: