

	Where We Are Now						
	Chapter	Relationships	Sustainability	Globalization	Drganizational Culture/Ethics	Change Management	Measurement
	Part 1 Supply Chain: A perspective for Operations Management						_
	1. Introduction to Managing Operations Across the Supply Chain	Х	Х	х			
	2. Operations and Supply Chain Strategy	х	х	х	Х	Х	х
	Part 2 Foundations of Operations Management						
	3. Managing Processes and Capabilities	Х					Х
	4. Product/Process Innovation	х	х	х		Х	
Managing Lass Systems KDeepker 81	5. Manufacturing and Service Process Structures	Х		Х	Х		Х
Managing Soully Display III Understanding England III Sundamentals	6. Managing Quality	Х	Х	Х	Х	X	Х
d Capabilities Descention Capabilities Descention Process Product Process Process Products	7. Understanding Inventory Fundamentals	Х		Х			Х
(Depter I)	8 Lean Systems	х		х	Х	Х	Х
Manufacture and a second and a	Part 3 Integrating Relationships Across the Supply Chain						
	9. Customer Management	Х					Х
	10. Supplier Management	Х	Х	Х	Х		Х
And a second statement Mark a second statement second statement	11. Logistics Management	х	х	Х			
Next Polation Stateform Soldinant	Part 4 Planning of integrated Operations Across the Supply chain	Х					
Pasterburst tender Danie 4 Aproximient Legy Jan Kengy Charl	12. Demand Planning: Forecasting and Demand Management	Х		Х			Х
Remark Table & Developer Parming (CDV)	13. Sales and Operations Planning	Х		Х			Х
Classe 14 Marcan and Telescon Reported Topology 10	14. Independent Demand Inventory Planning	Х					Х
* * 77	15. Materials and Resource Requirements Planning	Х		Х			Х
and the second	Part 5 Managing Change in Supply Chain Operations						
	16. Project Management	Х	Х	Х	Х	Х	Х
4 1 1	17. Evolving Business Models and Change Drivers in the Supply Chain	х	Х	х	Х	Х	
						6–2	





Description for Tangible Good	Description for Intangible Service	
Degree to which meets or exceed	s certain operating characteristics	
Presence of unique characteristics supplementing basic features		
Operating time before repair	Dependable & accurate	
Product life or amount of use on gets until deterioration		
Degree to which design specifications are met		
Look, feel, sound, taste or smell	Facilities, equipment, personnel and communication materials	
Installation, information, maintenance or repair	Willingness to help and prompt service	
Image, advertising, brand name, reputation, etc. not directly associated with attributes	Knowledge & courtesy of employees; ability to convey trust, confidence, caring and individual attention	
	Description for Tangible Good Degree to which meets or exceed Presence of unique characteristi Operating time before repair Product life or amount of us Degree to which design Look, feel, sound, taste or smell Installation, information, maintenance or repair Image, advertising, brand name, reputation, etc. not directly associated with attributes	

Functional	Influence on Product Quality
Functional Personnel	Decisions and Activities Impacting Quality
Marketing	Market selection Advertising New product testing
Sales	Set sales targets Interact with customers Interpret customers' needs and desires
Product Engineers	Design specifications, service elements, tolerances, etc. Design prototype
Process Engineers	Design processes Choices of technology, capabilities and capacity Quality assurances tests and procedures
Finance & Accounting	Monitor equipment purchases Utilization goals Measures of efficiency and productivity
	Figure 6-2 6-6

Functional Influence on Product Quality cont'd

Functional Personnel	Decisions and Activities Impacting Quality	
Human Resources	Hiring criteria; training and development programs Compensation schemes and incentives	
Manufacturing & Service Operations	Design and execute processing procedures Design work policies Manage facilities and equipment Schedule work	
Supply Managers	Purchase requirements Supplier selection Manage contracts Manage suppliers	
Logistics Managers	Selection of transportation providers Develop tracking systems Design packaging, storage and material handling processes Management of transportation providers	
	Figure 6-2 6-7	

(Cost of Quality (COQ)
Prevention Costs	Costs associated with <u>preventing defects</u> and limiting failure and appraisal costs (e.g., training, improvement projects, data gathering, analysis)
Appraisal Costs	Costs associated with inspection to assess quality levels (e.g. staff, tools, training, etc.)
Internal Failure Costs	Costs from defects found <u>before</u> delivery to the customer (e.g., rework, scrap, etc.)
External Failure Costs	Costs associated with defects found <u>after</u> delivery to customer (e.g., warranty, recall, etc.)
	6–8

	Quality Thought Leaders	
Deming	Holistic view of responsibility for quality Variability as source of most problems Importance of customer	
Juran	Broadened definition of quality Focus on change management cost of quality analysis	
Crosby	Quality is free Zero defects Focus on incremental change	
Imai	Kaizen system of continuous improvement Intense process-oriented view Heavy dependence on frontline worker insights Emphasis on worker training and development	
		6-9









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Guiding Methodologies: 6o			
Six Sigma: quality improvement through elimination of defects and variation			
Standard deviation: statistical measure of variation			
Sigma Level	Defects per Million		
2σ	308,537		
3σ	66,807		
4σ	6,210		
5σ	233		
6σ	3.4		
	6–16		









ISO 9000 and MBNQA

ISO 9000

- For all types of organizations For all types of organizations
- Application and audit
- International standard
- Required by many customers
 Facilities sharing 'best
- Certification maintenance requires periodic auditing

MBNQA

- Application and audit
- Helps with improvement
- practices'
- Working tool for understanding, measuring and improving performance
- Provides opportunity to compare quality systems

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