

Introduction



Dimensions of Quality

- Functionality core features and characteristics
- · Reliability durability
- Usability user friendly
- Maintainability ease with which a product can be maintained in original condition
- Efficiency output to input ratio
- Aesthetics attractive
- · Serviceability how well the customer is treated

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Industrial Managemer

Introduction



Consequences of Poor Quality

- Lower Productivity
- · Loss of Productive time
- Loss of material
- Loss of business
- Liability



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Introduction



Quality – Expensive???

- Prevention cost
- Appraisal cost
- Internal Failure cost
- External Failure cost

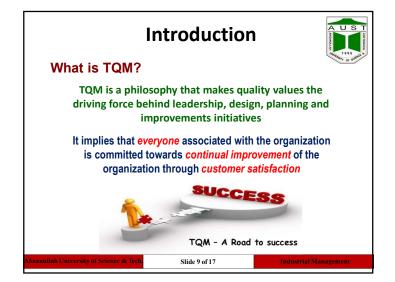


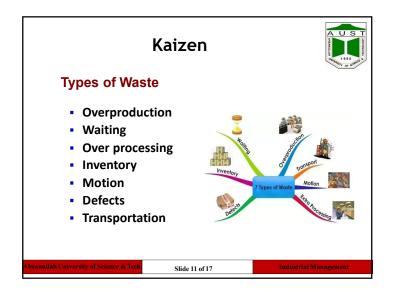
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strial Management

Introduction Juran model of Quality Costs Total cost Optimum quality level Perfect quality Perfect quality Name of Science & Irch Slide 8 of 17 Industrial Management





Total Quality Management



Some Philosophies of TQM

Kaizen

Kaizen – Change for the better – refers to activities that continually (?) improve all functions and involve all employees

Basic Goals

- Discover and Eliminate all Waste in a process
- Waste anything that the customer does not pay for Some waste is necessary or required (personnel files, financial records, meetings, etc.)

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Industrial Management

PDCA Cycle

An iterative four-step management method used in business for the control and continuous improvement of processes and products

Also known as **Deming circle/cycle/wheel**, **Shewhart cycle**, **Control circle/cycle**

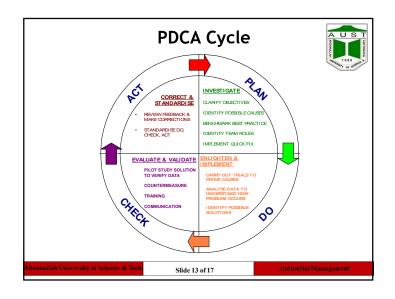
When to Use

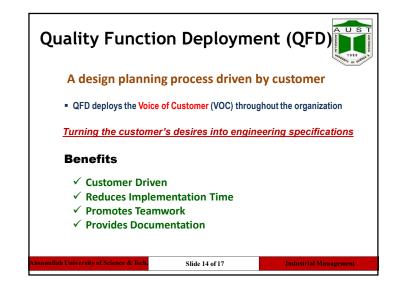
- > As a model for continual improvement
- > When starting a new improvement project
- When developing a new or improved design of a process, product or service
- > When defining a repetitive work process
- When planning data collection and analysis in order to verify and prioritize problems or root causes
- > When implementing any change

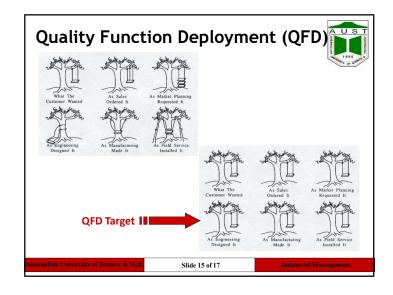
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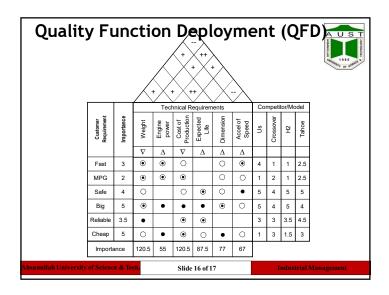
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	Importance	Technical Requirements						Competitor/Model				1995
Customer Requirement		Weight	Engine	Cost of Production	Expected Life	Dimension	Accel of Speed	Us	Crossover	F	Tahoe	1995 Chapter of Secret
		∇	Δ	∇	Δ	Δ	Δ					
Fast	3	•	•	0		0	•	4	1	1	2.5	
MPG	2	•	•	•		0	0	1	2	1	2.5	
Safe	4	0		0	•	0	•	5	4	5	5	
Big	5	•	•	•	•	•	0	5	4	5	4	
Reliable	3.5	•		•	•			3	3	3.5	4.5	
Cheap	5	0	•	•	0	•	0	1	3	1.5	3	
Custor	ner	120.5	55	120.5	87.5	77	67	Set				
Us	Us Crossover H2		51	77	80	76	62	your target				
Crosso			34	91	76	60	40					
H2			24.5	77	86	67.5	36.5					
Taho	e	109.5	52	116.5	98.5	69	56				7	
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