COST OF QUALITY

satisfy customer expectations and value for money. Cost of quality is important in terms of continuous improvement

Quality is concerned with conformance to specification; ability to

- process. The cost of control/conformance and the cost of failure of control/
- non- conformance is the quantitative measure of COQ. It is the sum of the costs related to prevention and detection of

defects and the costs incurred due to occurrences of defects.

EXAMPLE Let's take an example of an Hotel named XYZ

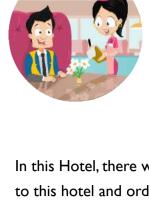
STORES

PRODUCTION

The Pav Bhaji was

delivered to the

DISPATCH





Customer orders

Pav Bhaji





He is disppaointed

by the quality and

returns it to the dispatch team. Since there is no quality department, the food was not subject to inspection, In order to overcome this problem the concept of cost of quality emerged. Categories Of COQ 1. Internal Failure Cost These costs are related with poor quality products 2. External Failure Cost

dispatch team. After eating the pav bhaji he is totally disappointed with the quality and taste of the pav and

3. Prevention Cost 4. Appraisal Cost

he ate the Pav.

Bhaji beacuse it lacked quality and that failure occured only when

External Failure Cost: It relates to defects found after delivery to the customers. In the given example, the customer returns Pav

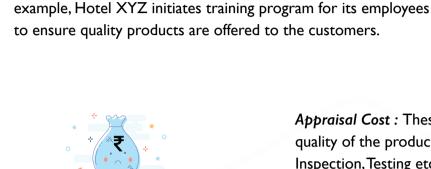
These costs are related with good quality products

Prevention Cost: The costs that are incurred in order to reduce the number of defects in products and services. In the given

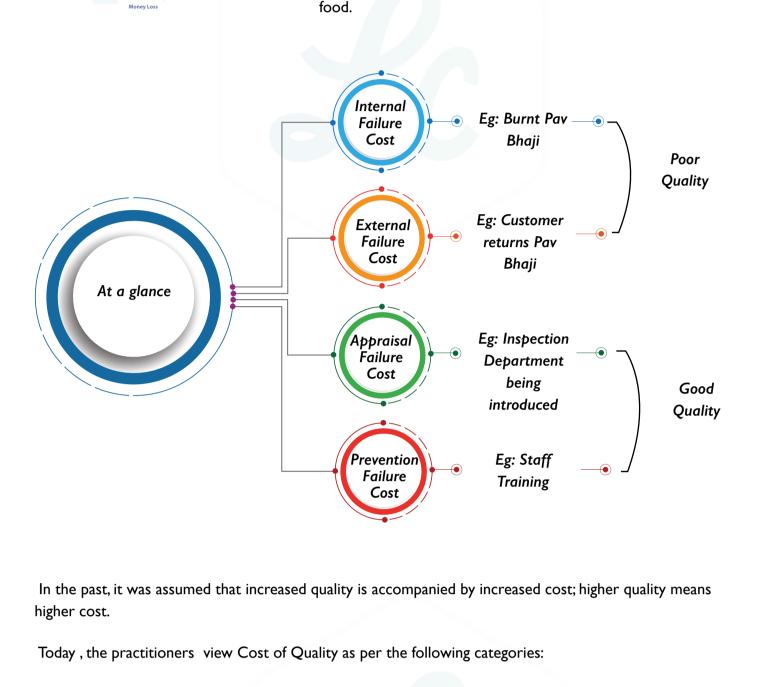
Internal Failure Cost: It relates to the defects found before

Bhaji has reduced only because of the chef's negligence.

delivery to the customer. In the given example, the quality of Pav



Appraisal Cost: These costs are incurred to ensure that the quality of the products meets customer requirements such as Inspection, Testing etc., In the given example the Hotel can include an another inspection department to check the quality of



Cost of Quality

Cost of

Good

Quality

→ Scrap

→ Rework

→ Delays

→ Failure analysis

→ Re-designing

→ Failure analysis

→ Shortages

Cost of Poor

Quality

2. The resultant savings are greater than the cost of improving quality

3. Quality costs are those incurred in excess of those that would have been incurred

1. Higher quality means higher cost

Components of COQ

Costs



receives the product or service.

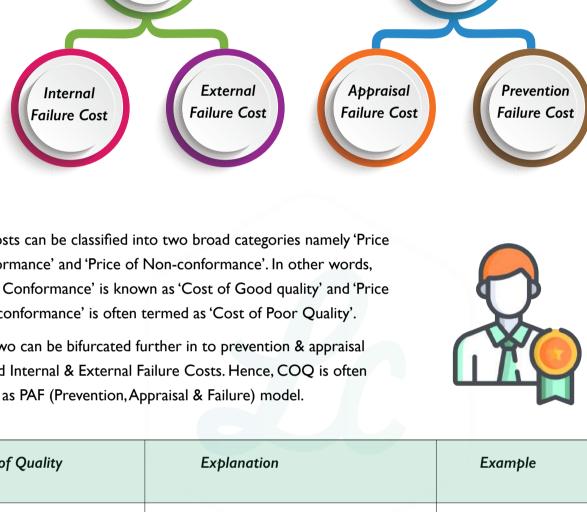
conforming to requirements or

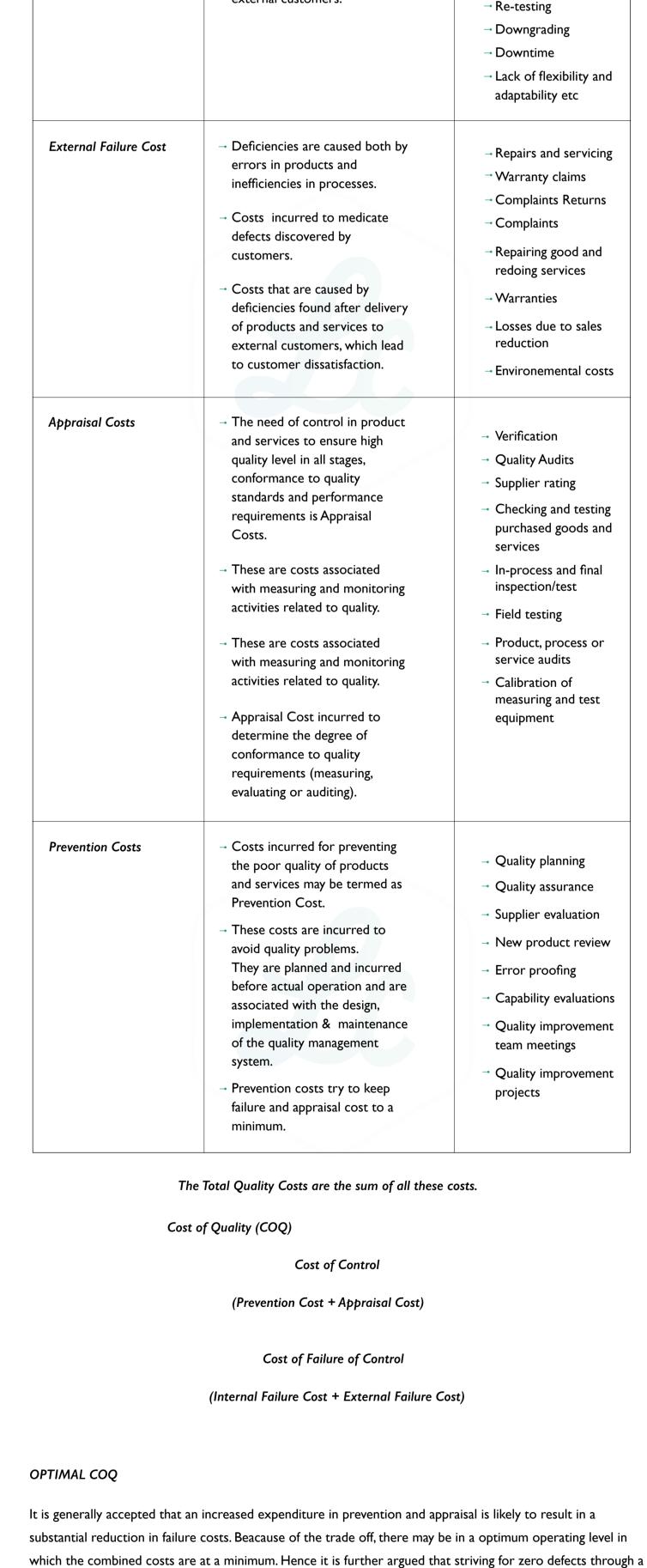
customer/user needs and are

found before delivery of products and services to

external customers.

→ Costs that are caused by products or services not





Tool Costs Internal & External Failure Costs

Appraisal & Prevention Cost

Allocate resources to

combat the weak-spots

% of defects

program of continuous improvements is not good for the economic interest of the company.

The Prevention, Appraisal, and Failure (PAF) model is the most widely accepted method for measuring and

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Steps of Application of PAF Model

classifying quality costs. Following is the process of the PAF Model: Apply some assumptions to that

data in order to

quantify the data

Chart the data based Gather some basic Do this study on a information about on the four elements regular basis and listed above and evaluate your the number of study it failures in the system performance

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