Costs of Quality (COQ)

It is easier to MEASURE the COQ in organizations that use ABC and ABM.

COQ is not required to be reported in the financial statements.



When COQ is reported, it is usually expressed as a % of sales.

Quality Awards and Certificates



Japan

Community



Less time means quicker response to changing customer needs and to changing conditions of the marketplace.

Measuring Results: Process Efficiency

Process efficiency

• The ability to transform inputs into outputs at lowest cost.

Production processes

• Result directly in the production of products or services provided to external customers.

Business process

Support or enable production processes.



Measuring Results: Process Efficiency



Measuring Productivity



Specific productivity measures compare:

OutcomesThe scarcest or mostValued bytovaluable resources used toCustomersachieve the outcomes.

Measuring Cycle Time

The average time necessary to complete and deliver all good units and dispose of units that have to be reworked or scrapped because of defects.



Measuring Throughput Efficiency

A measure of the amount of time spent adding value compared to the total cycle time.



Measures of Capacity

Process Capacity A measure of a process's ability to transform resources into valued products and services.

Practica I Capacit It is possible for "capacity demand" to exceed practical capacity.



Measures of Capacity

<u>Used Capacity</u> is the amount of the practical capacity that is actually used.



In some cases, "used capacity" can actually exceed "practical capacity."



Managing Quality + Time + Productivity + Capacity = JIT



Managing Quality + Time + Productivity + Capacity = JIT

The goal is to manage costs so that the savings associated with JIT exceed the cost of implementing JIT

Cost savings:

 Inventory warehouse rent or cost

 Inventory managers and personnel

Less warranty cost

Implementation costs: •Employee retraining •Technology improvement •Exposure to work stoppage risks.



JIT "Pull" Manufacturing -Example



JIT Success Factors



End of Chapter 7

Uh, Boss? My luggage was Just-in-Time, but I wasn't!

