

Chapter 8

Production Management

Increase efficiency Create quality and drive business to success.



Definition of Production Management



Production

Making, assembling or creating products through
Processing from raw materials to create added value for
products.



Manufacturing Management (MGMT)

Processes that form a production system to achieve output
that meets targets, such as budget allocation and quality
control.

"Production management guarantees that the results meet the set targets."

Importance to Business Organizations

01

Increase efficiency

Control the use of production factors to make the most effective effect. Reduce losses

02

Increase quality

It enables organizations to control production standards to meet predetermined standards.

03

Convenience and speed

Establish clear policies that make system development easy and timely

Main Purpose of Production



- **คุณภาพ (Quality):** สร้างผลิตภัณฑ์ตามมาตรฐานที่คาดหวัง
- **ผลิตภาพ (Productivity):** เปรียบเทียบ Input vs Output สูงสุด
- 🕒 **เวลา:** ส่งมอบผลิตภัณฑ์ได้ทันเวลา
- 🔄 **ความยืดหยุ่น:** ปรับตัวตามความต้องการที่เปลี่ยนไป

3-step production stage



Primary

Direct use of natural resources such as cultivation, forestry, fisheries,



Secondary

Primary output is processed into industrial products.



Tertiary

Services and facilities such as transportation, banking,

Adding Utility

Format	Business examples
Form Changes	Processing paddy into rice or rubber into tires.
Change of Place)	Transport sugarcane to sugar mills or deliver goods to retail stores.
Time Changes	Preservation of canned fruits or the production of seasonal sweaters.
Change of Possession	Transfer of rights through middlemen or real estate brokers

Operational Resources

 Efficiency Data

 Inventory Level

 Information from Supplier EDI

 Labor and Personnel Data (Skill Matrix)

- Organizational strategy
will be the master for determining the direction.



Factors of Production

- Natural resources: forests, rivers. Land
- Capital: Objects, capital (machines) and capital
- Labor: both physical and human brain strength.
- Entrepreneurship: Gathering factors for production

Basic issues to consider

1. What to produce?
2. How to produce?
3. For whom to produce?

Application of Information Technology



Modern machines

Increase speed Reduce manual labor
and reduce unit costs.



Design (CAD)

Invent a variety of new styles to
meet the highest satisfaction.



Information Technology

Use computers to store data and
analyze the results in real time.

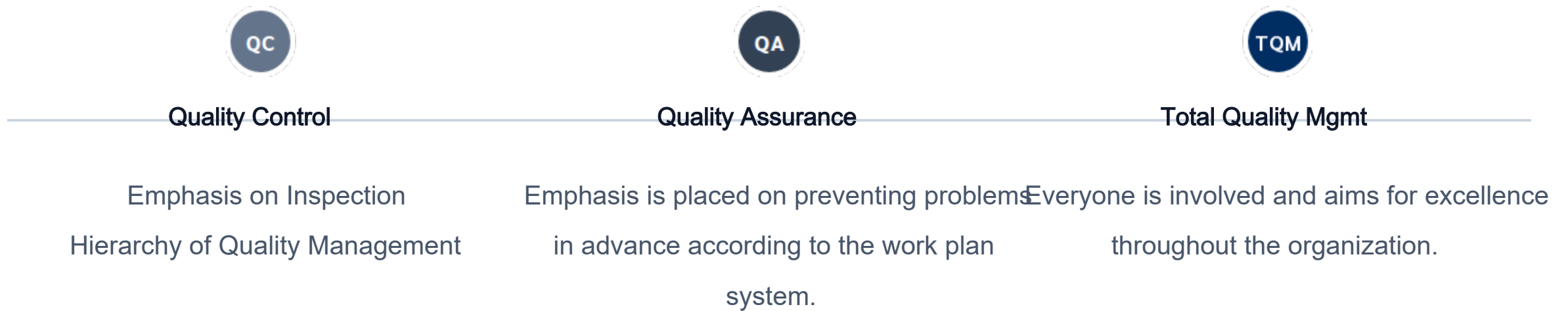
SECTION 02:

Quality Management

"Good quality means getting the production right from the beginning and satisfaction exceeding customer expectations."



Hierarchy of Quality Management



Key Components of TQM



Customer Oriented

Focus on customer needs as the center of management.



Continuous Improvement

Continuous process improvement (Kaizen) for efficiency



Employee Involvement

Everyone in the organization participates in the development and problem solving.

4 Dimensions of Product and Service Quality

- ✓ Standard: Technical/Regulatory Requirements
 - ✓ Efficiency: Cost-effective and time-effective
 - ✓ Performance: Practical Ability
 - ✓ Satisfaction: Meets your needs
-



SECTION03

Warehouse Management

Strategic Warehouse & Logistics Management

Warehouse Management (WMS)

Software that boosts competitiveness:



Inventory accuracy



Shorten the time it takes to order the ordering process.



Reduced storage costs

Warehousing Functions

- Manufacturing Support
- Mix Warehouse
- Consolidation
- Break Bulk

Related Technologies: Barcode, RFID, Mobile Network, PDA

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Questions & Discussion

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