Operations and Productivity

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Part 2 Chapter 1

10 OM Strategy Decisions

What Is Operations (Production) Management?

Production:

is the creation of goods and services

Operations management (OM):

is the set of activities that create value in the form of goods and services by transforming inputs into outputs

Organizing to Produce Goods and Services

Essential functions:

- 1. Marketing generates demand
- 2. Production/operations creates the product
- 3. Finance/accounting tracks how well the organization is doing, pays bills, collects the money

Why Study OM?

- 1. OM is one of three major functions of any organization, we want to study how people organize themselves for productive enterprise
- 2. We want (*and need*) to know how goods and services are produced
- 3. We want to understand what operations managers do
- 4. OM is such a costly part of an organization

What Operations Managers Do

Basic Management Functions





- 1. Design of goods and services
 - What good or service should we offer?
 - - How should we design these products and services?
- 2. Managing quality
 - How do we define quality?
 - Who is responsible for quality?

- 3. Process and capacity design
 - What process and what capacity will these products require?
 - What equipment and technology is necessary for these processes?
- 4. Location strategy
 - Where should we put the facility?
 - On what criteria should we base the location decision?

- 5. Layout strategy
 - How should we arrange the facility?
 - How large must the facility be to meet our plan?
- 6. Human resources and job design
 - How do we provide a reasonable work environment?
 - How much can we expect our employees to produce?

7. Supply-chain management

- Should we make or buy this component?
- Who should be our suppliers and how can we integrate them into our strategy?
- 8. Inventory, material requirements planning, and JIT
 - How much inventory of each item should we have?
 - When do we re-order?

- 9. Intermediate and short-term scheduling
 - Are we better off keeping people on the payroll during slowdowns?
 - Which jobs do we perform next?
- **10. Maintenance**
 - How do we build reliability into our processes?
 - Who is responsible for maintenance?

Where are the OM Jobs?

- Technology/methods
- Facilities/space utilization
- Strategic issues
- Response time
- People/team development
- Customer service
- Quality
- Cost reduction
- Inventory reduction
- Productivity improvement