

## Operations Management Study Guide

### Inventory Management

Amazon.com example

Functions of inventory

Types of Inventory

ABC Analysis (know what and when it applies)

Cycle counting (def)

Independent versus Dependent Demand

Basic Economic Order Quantity (not equation, know what goes into the equation and if you change a number-ex: if you doubt a part of the equation how will it affect it?)

Quantity Discount Models

Safety Stock

Fixed Period Systems

### Aggregate Planning

Aggregate planning (def and the time horizons)

Aggregate Planning Strategies and what technique applies to it

Capacity Options (know difference between level and changing strategy)

Slides 14-19

Disaggregation (what and where we use it)

Objective for aggregate planning

Tools necessary for aggregate planning

Time horizon (the slide on planning process)

Demand Options

Aggregate planning options (adv/disadvantages good overview slides)

Know Graphical and Charting Methods

Mathematical Approaches

Yield Management

### Material Requirements Planning (MRP) and ERP

-watch abbreviations in this chapter could get you in trouble

Know dependent and independent demand

Benefits of MRP

Dependent Demand

Master production schedule (MPS)-a plan of what is to be made and when it is to be made

Know example of aggregate production plan

Bills of Material

Bills of Material example-know! (There is a question on the test about applying it)

Know difference between Modular Bill, Planning Bill, Phantom Bill and what each does

Accurate Records slide-possible question on 99%

Lead Times-know how to do a time based product structure

Time-Phased Product Structure

Gross Requirements Plan

MRP Management  
Finite Capacity Scheduling  
Know time buckets  
Supermarket  
Lot-sizing techniques  
Lot-sizing summary (look over)  
Know ERP is an extension of MRP  
Know Distribution Resource Planning (DRP) and how it's different from MRP  
Enterprise Resource Planning (ERP)  
Advantages of ERP Systems (IMPORTANT)  
    What do you need to do to achieve ERP? (All have to be working with same data)  
Disadvantages of ERP Systems  
Common characteristics of ERP

#### Just-in-Time and Lean Production Systems

Just-in-time (know it's a philosophy)  
Waste Reduction  
Pull vs. Push systems  
JIT and competitive advantage (good overview slide)  
Suppliers  
JIT partnerships (slides 19-23)  
Distance Reduction  
Impact on employees  
    Cross trained?  
Reduce Variability slide-trying to navigate through the water  
Reduce setup costs  
Kanban  
The 5 S's (that become the 7 S's)  
Seven wastes