

## CHAPTER 14: MATERIAL REQUIREMENTS PLANNING AND ENTERPRISE RESOURCE PLANNING

### DEPENDENT DEMAND

- **Dependent demand:** demand for subassemblies, parts, or raw materials that are derived from the plan for production of finished goods.
- Independent demand of most finished goods and supplies is fairly steady once allowances are made for seasonal variations.

### OVERVIEW OF MRP

- **Enterprise resource planning (ERP):** used to manage and coordinate all resources, information, and functions of an organization from a shared database.
- **Material requirements planning (MRP):** planning and scheduling techniques primarily used for batch production of the components of assembled items.
  - Activity that determines the plans for purchasing and production of dependent-demand components.

### MRP INPUTS

- MRP system has three major sources of information:
  1. **Master production schedule (MPS):** anticipated build schedule stating which end items are to be produced, when, and in what quantities for the next 12 weeks or so.
    - Separates planning horizon into series of time periods or time buckets, which are expressed in weeks or days.
    - **Cumulative lead time:** sum of the lead times that sequential phases of a process require, from ordering of components to completion of final assembly.
  2. **Bill of material (BOM):** listing of all subassemblies, parts, and raw materials that are needed to produce one unit of a finished product.
    - **Product structure tree:** hierarchical diagram of components needed to assemble a product.
    - Special types of BOM:
      - I. **Planning bill:** combination of several BOMs.
        - Use will result in calculation of right number of components to be purchased or produced.
        - Reduces number of BOM necessary for planning when products have various options.
      - II. **Modular bill:** a BOM for a module.
        - Used to reduce number of BOMs when product consists of various modes.
      - III. **Phantom bill:** for item that usually not kept in inventory.
        - No lead time and special stock code.
  3. Inventory levels, lead time, and open orders.

### MRP PROCESSING, UPDATING, AND OUTPUTS

- Quantities that are generated by exploding the bills of materials are gross requirements; do not take into account any inventory that is currently on hand or is due to be received.

$$\text{Net requirements in period } t = \text{Gross requirement in period } t - \text{Projected inventory at the start of period } t - \text{Schedule receipts} + \text{Safety stock}$$

- If formula is negative value, then there is no net requirement.

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