

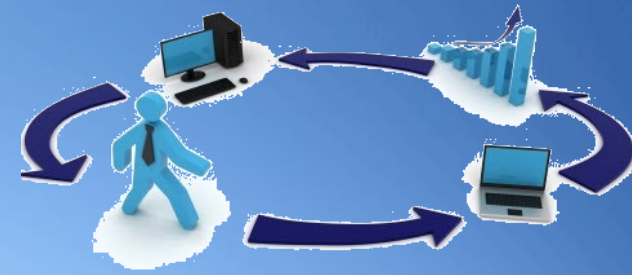


Project Planning & Scheduling

Saurabh Naik

Project Planning

- A Plan is a Blue Print for Goal Achievement.
- Projects Often do not succeed without careful planning.
- Planning allows project teams to address 5 critical factors that determine success & failure of project.
 - Quality
 - Cost
 - Schedule
 - Performance
 - Supportability



Some Important Terms

- **Project Charter:-** Serves as the starting point of project, it includes title ,purpose ,statement of need ,expected results, signature of the stakeholders.
- **WBS(Work Breakdown Structure):-**It identifies the work to done to complete the project.
The purpose of WBS is to describe the whole project and the strategy for completing the project by dividing it into logical components.
- **Task Dependencies:** Task Dependency is a relationship in which a task or milestone relies on other tasks to be performed (completely or partially) before it can be performed.

Network Diagram.

- A network diagram is produced in the form of chart showing project activities with the interdependencies.
- The Key feature is to identify the longest duration chain of activities on the project.

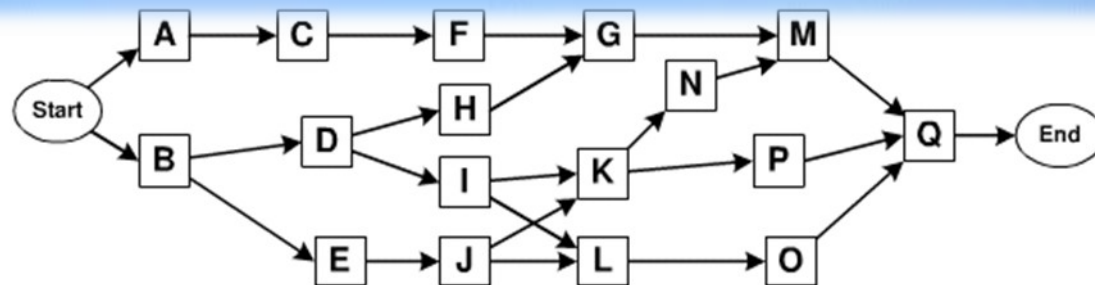


Figure 3-5 Example Network Diagram

Schedule



- The project schedules tell when the project activities start, how long they last, and when they should be finished.
- Key to develop a perfect schedule is Work packages and task dependencies.
- This two inputs allow scheduler to develop accurate schedule.
- The schedule is usually in the form of Gantt chart ,Milestone chart.

Project Planning Process.

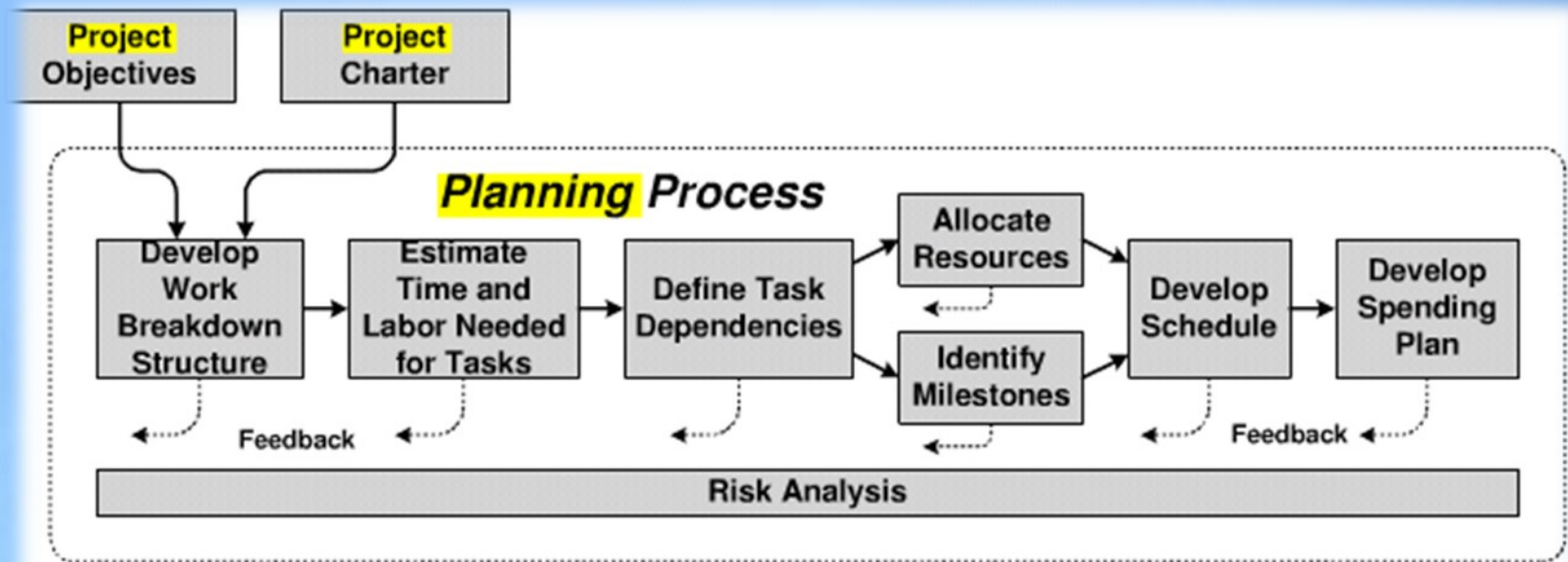


Figure 3-2 Project Planning Process

Production planning

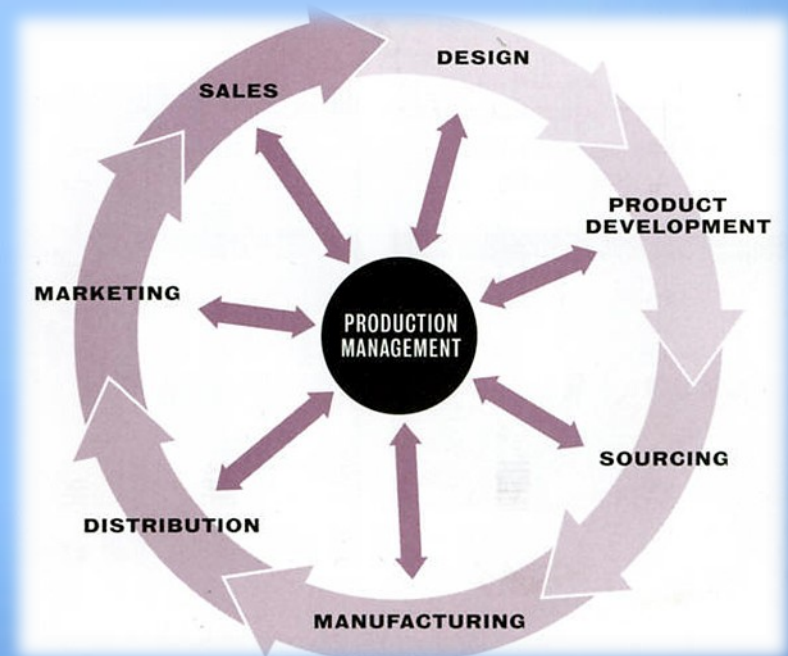
- It is the function of establishing an overall level of output, called the production plan.
- The process also includes other activities needed to satisfy current planned levels of sales, while meeting the firm's general objectives regarding profit, productivity, lead times, and customer satisfaction, as expressed in overall business plan.
- The managerial objective of production planning is to develop an integral game plan where the operations portion is production plan.

What is Production Planning?

- At its core, production planning represents the beating heart of any manufacturing process.
- Its purpose is to minimize production time and costs, efficiently organize the use of resources and maximize efficiency in the workplace.
- The primary purpose is to establish the production rates that will achieve management objective of satisfying customer demand. Demand satisfaction can be achieved through the maintaining ,raising,or lowering of inventories or backlogs,while keeping the workforce relatively stable.

How is it prepared

- It is normally prepared with the information from marketing and coordinated with functions of manufacturing, engineering, finance, materials and so on.



Process

- The production planning process begins with an updated sales forecast covering the next 6 to 18 months.
- Any desired increase or decrease in inventory and backlog levels can be added or subtracted, resulting in the production plan
- However, the production plan is not a forecast of demands. It is planned production, stated on an aggregate basis. An effective production planning process will typically utilize explicit time fences for when the aggregate plan can be changed (increased or decreased). Also there may be constraints on the degree of change (amount of increase or decrease)