

PRODUCTION PLANNING AND CONTROL

Production is the transformation of raw material into finished goods while planning looks ahead, anticipate possible problems, and decides in advance as to how the production carried out in the best way. Control makes sure that the programmed production is constantly maintained.

Importance of Production Planning and Control

- It is necessary to improve the organization for a regular and timely delivery.
- It helps to achieve better supply and communication for raw material procurement
- Reduces investment for inventory purposes
- Reduces production costs by proper estimation and increase the efficiency
- Ensures a smooth flow of product without any interruption
- Makes sure the proper quality and quantity of equipment, raw materials, etc are available during production times.

A production planning and control system consists of many functions:

Forecasting: it is the process of making predictions of future data based on the past data by analysis of trends. Forecasting decides how many units to produce during a specific time period to avoid the extra cost of storage and reduces the chance of making outdated products. A sales forecast should be accurate, easy to understand, and economical.

Product Design: before starting to manufacture a new product or improve the product, it is essential to design the product first. Design department modify and extend the range of an original idea. Product design deals with both form and function. Form design take care of product's shape whereas functional design deals with its working.

Process planning: It is the preparation of the detailed planning on how to manufacture a product, thus, it is necessary to plan the process. Process planning determines the most economical way to perform an operation or number of operations to complete the manufacture.

Routing: routing lays down the flow of work in the plant. It determines what work needs to be done, how to be done, and when to be done. From the raw material to the finished product routing decides the path and sequence of operation to be performed.