



Importance of work study, Factors influencing productivity, Concept of Standard time, Method study, Time and motion study, relationship of time and motion study to work study; work measurement; techniques of work measurement.

**UNIT 6: Production planning and control & Quality Control**

**08HRS**

Objectives of production planning and control; principles of production planning and control (PPC); main functions of production planning and control department.

**Quality Control**

Statistical quality control-, Quality Management, Quality circle, Meaning of ISO and TQM (Concepts only).

**UNIT 7 :Maintenance and waste management**

**06HRS**

Introduction, meaning, types of maintenance. Waste management- scrap and surplus disposal, salvage and recovery.

**SKILL DEVELOPMENT**

- Diagrammatically show the layout of a industrial/ business/service unit visited by you.
- Visit any two manufacturing companies of your choice, collect the number of accidents happened in the last two years and categorize them.
- Make a list of materials consumed by any manufacturing unit along with its quality and prices for the last five months.
- Visit a factory and report about various material handling practices and machines used by them.
- Visit a manufacturing unit. Observe the process of manufacturing and identify various activities and sequences involved.

**REFERENCES:**

1. S.N. Chary, Production and Operations Management, Tata McGraw-Hill Publishing Company Limited
2. Aswathappa K, Production and Operations Management, Himalaya Publishing House
3. S.A Chunawalla, D.R. Patel, Production and Operations Management, Himalaya Publishing House
4. Thomas E. Morton, Production and Operations Management
5. N.G Nair, Production and Operation Management, Tata McGraw-Hill Publishing Company Limited
6. Dr. L.N Agarwal and Dr. K.C Jain, Production Management
7. Everett E. Adam Jr., and Ronald J. Ebert, Production and Operation Management
8. K.K Ahuja, Production Management.