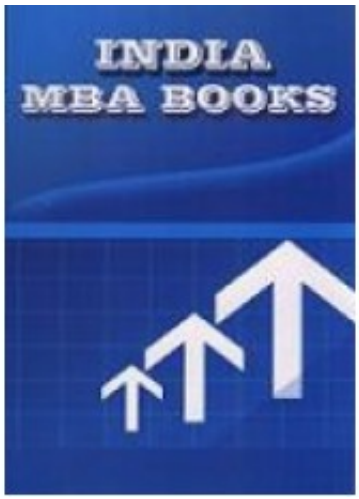
PRODUCTION AND OPERATIONS MANAGEMENT



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2.6 PRODUCTION AND OPERATIONS MANAGEMENT

OBJECTIVE

The objective of the subject is to make the students understand the concepts of production and operations
management of an industrial undertaking and the benefits of automation.

Unit 1: INTRODUCTION TO PRODUCTION AND OPERATIONS
MANAGEMENT 12Hrs

Introduction - Meaning & Definition – Classification - Objectives and Scope of Production and operation
Management -Automation: Introduction – Meaning and Definition – Need – Types - Advantages and
Disadvantages.

Unit 2: PLANT LOCATION AND LAYOUT 08 Hrs

Introduction – Meaning & Definition - Factors affecting location, theory and practices, cost factor in
location - Plant layout principles - space requirement- Different types of facilities, Organization of physical
facilities – building, sanitation, lighting, air conditioning and safety.

Unit 3: MATERIALS MANAGEMENT 08Hrs

Introduction – Meaning & Definition - Purchasing, Selection of Suppliers, Inventory Management,
Material Handling Principles and Practices, Economic Consideration, Criteria for Selection of Materials
Handling Equipment, Standardization, Codification, Simplification, Inventory Control, Techniques of

Unit 4: PRODUCTION PLANNING AND QUALITY CONTROL 16Hrs

Objectives and Concepts, capacity planning, corresponding production planning, controlling, scheduling
routing – Quality Control - Statistical Quality Control, Quality Management, Control charts and operating
characteristic curves, acceptance sampling procedures, Quality Circle, Meaning of ISO and TQM.
Productivity – factors influencing productivity - Concept of Standard Time, Method study, Time and
Motion Study, Charts and Diagrams, Work Measurements

Unit 6: MAINTENANCE AND WASTE MANAGEMENT 12Hrs

Introduction – Meaning – Objectives - Types of maintenance, Break down, spares planning and control,
preventive routine, relative advantages, maintenance scheduling, equipment reliability and modern
scientific maintenance methods - Waste Management - Scrap and surplus disposal, salvage and recovery.

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