**Production Management**

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**Exam. Models**

 Research No. 1: **Production Management Activities**

 -Data Collection

 - Production Phases

 - Production and Operations Management

 - Decision Making

 - The new trends in Production Management

Research No. **2**: **Production Management Basics**

 - Scientific management

 - Managerial Planning

 - Personal and Work Organization

 - Production Management Systems

 - Production Process Planning

 Research No. 3: **Research and Development**

 - Technological Development and Innovation

 - Product Life Cycle

 - Design for Production

 - Engineering Material Selection

 - Manufacturing Phases development in details

Research No.. 4: **Product and Productivity**

 - The Relation between Product and Productivity

 - Product Analysis

 - Product Cost Estimation

 - Time and Motion Study

 - Quality Topics

Research No.**5: Group Technology**

 - Group Technology

 - Manufacturing and Computable Manufacturing Cells

 - Hierarchical Classification and Coding

 - GT for Design Application

 - GT Typical Process Planning System

Research No.**6:** **Production Planning**

 - Planning of Manufacturing Resources

 - Improve Labor Productivity

 - Reducing raw materials waste

 - Capacity and Aggregate Planning

 - Forecasting

Research No.**7:** **Material Requirement Planning (MRP)**

 - MRP System

 - Bills of Material (BOM)

 - MRP Management

 - Benefits of MRP

 - **Independent and Dependent Demand**

Research No.**8**: **Production Control**

 - 6 Sigma

 - Production Resources Control

 - Processes **Control**

 - Shop Floor **Control**

 - Inventory **Control**

Research No.**9**: Organization of Production

 - Work Organization Charts

 - Shop floor organization

 - Human Resources Organization

- Workflow management and Measurement

 - Job Analysis and Labor Motivation

Research No.**10**: **Maintenance Science and Technology**

 - Maintenance Systems Types

 - Maintenance Planning and Scheduling

 - Reliability centered maintenance RCM)

 - Total Productive Maintenance (TPM)

 - Computerized Management Systems (CMMS)

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