**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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