

Instructional Objectives

After learning the lesson students should be able to

- A. Describe the major functions of Production Management Systems under Level 3 Automation
- B. Describe the major features of a Supervisory Control System under Level 2 Automation
- C. Describe the major features of a Distributed Control System (DCS)

Introduction

The major activities that define the manufacturing enterprise in direct relation to the manufacturing of products include (i) Production Management, and (ii) Manufacturing. The first function is incorporated in Level 3 automation while the second one refers to Level 1 and Level 2 functions of a hierarchical Industrial Automation System. In the earlier lessons of this course we have predominantly been concerned with Level 1 Automation for manufacturing. In this lesson we briefly discuss these other aspects and particularly Level 2 and Level 3 Automation in more detail below. Finally a typical implementation of the functionality of Level 2 and 3 automation, under the technological platform known as Distributed Control Systems (DCS).

Level 3 Automation: Production Management

The role of production management is to plan and control effectively the physical and operational resources of the manufacturing plant such as, materials, tools, fixtures, machines, storage space, material handling equipment, and manpower, so as to meet the production requirements. Production management is also referred to as Production Planning and Control. As the name implies, it comprises two functions, namely, Production Planning and Production Control.

Production planning is concerned with: (1) deciding on the set of products to be manufactured, along with their production volumes, over a certain duration which is called the planning horizon; (2) scheduling, i.e., determining the sequence of production of the set of parts and products over the time duration and (3) allocation of the necessary manpower, raw material and equipment resources needed to accomplish the production plan. Activities within the scope of production planning include the following.

- **Aggregate production planning.** This involves determination of the target production output levels. The word *aggregate* means that planning is conducted at a gross level to meet the total demand collected over all products consolidated into product groups, utilizing the total human, equipment and material resources. These plans must be made in cognizance of various functions of the firm other than manufacturing, such as product design, production, inventory, marketing, and sales for the plan to be feasible and effective for the overall business objectives of a firm. Further, it must be made based on an accurate forecast of the demand for the products.
- **Master production planning.** In the next stage, the aggregate production plan must be detailed into a master production schedule (MPS), which includes specification of target production volumes of individual product types and their production schedules. In turn,

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Manufacturing Automation Chitragupt Swaroop Chitransh, *Plant Intelligent Automation and Digital Transformation* Swapan Basu, 2022-10-28 Plant Intelligent Automation and Digital Transformation Process and Factory Automation is an expansive four volume collection reviewing every major aspect of the intelligent automation and digital transformation of power process and manufacturing plants from the specific control and automation systems pertinent to various power process plants through manufacturing and factory automation systems This volume introduces the foundations of automation control theory networking practices and communication for power process and manufacturing plants considered as integrated digital systems In addition it discusses Distributed control System DCS for Closed loop controls system CLCS and PLC based systems for Open loop control systems OLCS and factory automation This book provides in depth guidance on functional and design details pertinent to each of the control types referenced above along with the installation and commissioning of control systems Introduces the foundations of control systems networking and industrial data communications for power process and manufacturing plant automation Reviews core functions design details and optimized configurations of plant digital control systems Addresses advanced process control for digital control systems inclusive of software implementations Provides guidance for installation commissioning of control systems in working plants

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Table of Contents Introduction To Logic Problems And Solutions Nptel

1. Understanding the eBook Introduction To Logic Problems And Solutions Nptel
 - The Rise of Digital Reading Introduction To Logic Problems And Solutions Nptel
 - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Logic Problems And Solutions Nptel
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Introduction To Logic Problems And Solutions Nptel
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Logic Problems And Solutions Nptel
 - Personalized Recommendations
 - Introduction To Logic Problems And Solutions Nptel User Reviews and Ratings
 - Introduction To Logic Problems And Solutions Nptel and Bestseller Lists
5. Accessing Introduction To Logic Problems And Solutions Nptel Free and Paid eBooks
 - Introduction To Logic Problems And Solutions Nptel Public Domain eBooks
 - Introduction To Logic Problems And Solutions Nptel eBook Subscription Services
 - Introduction To Logic Problems And Solutions Nptel Budget-Friendly Options

6. Navigating Introduction To Logic Problems And Solutions Nptel eBook Formats
 - ePub, PDF, MOBI, and More
 - Introduction To Logic Problems And Solutions Nptel Compatibility with Devices
 - Introduction To Logic Problems And Solutions Nptel Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introduction To Logic Problems And Solutions Nptel
 - Highlighting and Note-Taking Introduction To Logic Problems And Solutions Nptel
 - Interactive Elements Introduction To Logic Problems And Solutions Nptel
8. Staying Engaged with Introduction To Logic Problems And Solutions Nptel
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introduction To Logic Problems And Solutions Nptel
9. Balancing eBooks and Physical Books Introduction To Logic Problems And Solutions Nptel
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introduction To Logic Problems And Solutions Nptel
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Introduction To Logic Problems And Solutions Nptel
 - Setting Reading Goals Introduction To Logic Problems And Solutions Nptel
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Introduction To Logic Problems And Solutions Nptel
 - Fact-Checking eBook Content of Introduction To Logic Problems And Solutions Nptel
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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