

ADVANCE MANUFACTURING PROCESS ANALYSIS

Introduction

Firms exist to create and deliver value to customers, shareholders, employees and Society. Operations Management focuses on the means the underlying processes by which firms create and deliver value. A firm's processes transform inputs such as labor, capital, market, material and information into output of greater value in form of products and services. To manage or improve process it is important for us to understand process. Process analysis thus involves understanding the processes, the relationships between them and the overall operation, and how various tools can be used to analyze the process. The analysis of the various processes making up an operation is hence an important step in improving the competitiveness of a firm. The program focuses on developing the ability to identify operational methodologies to assess and improve an organization's performance. Participants will develop an integrated framework for strategic thinking and decision making to analyze the enterprise as a whole with a specific focus on operational processes.

Objectives of the Program

1. Recognize the value of mapping out how a process works before performing an analysis.
2. Analyze operational capacities for a number of different process configurations in manufacturing and services setting.
3. Familiarize with the concepts of throughput time, cycle time, WIP inventory, utilization, capacity, capacity utilization, bottlenecks, process and wait times in context of both manufacturing and services
4. Review the concept of set up time and how it can affect the cycle time of system
5. Appreciate the concept of standardization and its benefits in terms of cost, quality, and value and delivery time.

Pedagogy of the Program

The participants will acquire knowledge of process analysis; develop skills to apply the concepts, methods and techniques to resolve real life issues. The participants will be groomed via interactive lecture sessions, illustrative examples and cases studies.

Indicative Content of the Program

1. Introduction to Process Analysis
2. Introducing the concept of process mapping, bottle necks, capacity analysis, load balancing, Little's law
3. Linking Process analysis concepts to higher level managerial decision making
4. Process Analysis in Continuous Manufacturing
5. Process Analysis in Service Setting and Assembly line balancing.

Program Director: Prof. Arnab Adhikari & Prof. Amit Sachan

Fees (Per Candidate): Rs 19200+GST (Non Residential-In Campus), Rs 15000+GST (Online)

Proposed Dates: November 24 to 27, 2022 (2 Sessions per Day for 4 Days)