

# Manufacturing Planning & Control

## Course Overview

This course is designed to provide delegates with a comprehensive coverage of the concepts, tools, and methods used in the management and control of manufacturing environments.

## Course Outline

- Demand Management
  - The demand management process.
  - Demand Forecasting
    - Factors influencing demand.
    - Components of demand.
    - Demand seasonality.
    - Demand forecasting techniques.
    - Forecast accuracy measurement
- Sales and Operations Planning
  - S&OP characteristics.
  - The monthly S&OP process.
  - Production planning strategies.
  - The Resource Planning process.
- Master Scheduling
  - Objectives of master scheduling.
  - Inputs / Outputs of master scheduling.
  - Planning horizon and time fences.
  - The master production schedule.
- Capacity Planning and Utilization
  - Rated and demonstrated capacity.
  - Rough-cut capacity planning.
- Material Requirements Planning
  - The MRP process.
  - Inputs / Outputs of MRP.
  - Interface between MRP and Capacity Requirements Planning.
- Production Execution and Control
  - MRP Based Scheduling
    - Operations scheduling technique and order sequencing.
  - Theory of Constraints Based Scheduling
  - Just In Time
- Enterprise Resource Planning
  - Functional units connected by ERP.
  - Manufacturing Planning and Control with ERP.

## Learning Objectives

After completing this course, participants will be able to:

- Understand and perform demand forecasting.
- Balance demand with supply.
- Prepare and validate production plans.
- Perform the master scheduling process.
- Understand and manage material requirements planning.
- Manage and control production capacity requirements.
- Identify and manage bottlenecks.
- Schedule and sequence production operations.

## Who Should Attend

Persons working in the field of production planning, material requirements planning, production execution and control, as well as supply chain managers of manufacturing companies.

**Course Duration:** Three days from 9:00AM to 4:00PM

**Registration Deadline:** One week before the course date

## Course Venue:

Top Business premises: 17, Abdel Wahab Selim Elbeshry St. Sheraton Heliopolis, Cairo, Egypt.

## Registration & Payment:

- Logon to [www.topbusiness-hr.com/Course\\_Register](http://www.topbusiness-hr.com/Course_Register) to fill a registration form. Alternatively you can request a registration form by mail from: [training@topbusiness-hr.com](mailto:training@topbusiness-hr.com).
- Course fees include material, light lunch, coffee break and certificate.
- Payment by cheque in Top Business's name, cash to our address or by bank transfer.
- Payment is due within 3 working days from course confirmation. Your registration is confirmed only after course payment
- Payment is nonrefundable, however participant can be substituted or can attend next confirmed round of the same course or another course.

## For More Information

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