

# Manufacturing Planning and 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

Upon completion of 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

Anyone 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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