

# Course : Managing production with MRP

*Practical course - 2d - 14h00 - Ref. MGP*

*Price : 1500 CHF E.T.*



4,8 / 5

BEST

This training course provides an understanding of the fundamental mechanisms of MRP and CBN, and places MRP in a wider context: supply chain, planning and ERP. You'll learn how to work more effectively with your customers and suppliers, and for what type of flows MRP can be used.



## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understanding the fundamental mechanisms of CBN
- ✓ Mastering procurement and stock replenishment techniques
- ✓ Identify situations and contexts where MRP is recommended
- ✓ Collaborate more effectively with customers and suppliers

## Intended audience

Managers and technicians in planning, scheduling and workshop follow-up, supply chain and logistics, production and procurement.

## Prerequisites

No special knowledge required.

## Practical details

### Exercise

Case studies from the simplest to the most elaborate: getting to grips with CBN calculations. Simulation of a supply chain using the "beer game".

## Course schedule

### PARTICIPANTS

Managers and technicians in planning, scheduling and workshop follow-up, supply chain and logistics, production and procurement.

### PREREQUISITES

No special knowledge required.

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

## 1 The basics of production management

- Recognize customer and supplier objectives.
- Distinguish between the 5 production typologies.
- Understand the roles and functions of the industrial company.
- Understand the ERP panorama and typical modules.
- Understand the basics of MRP: PIC/PDP/CBN, monitoring.

### Hands-on work

Discussions on current customer requirements in terms of supply chain and lead times. Introductory calculations on MRP mechanisms.

## 2 MRP basics - Requirements calculation

- Understand the successive levels of calculation and their characteristics.
- Master the detailed mechanisms for calculating MRP/CBN quantities.
- Monitor the progress of production and orders.
- Identify the impact of some important MRP tuning parameters.
- Understand the theory and practice of MRP loops.

### Hands-on work

Creation of PDP and CBN calculation tables. Analysis of the impact of supply chain contingencies on CBN.

## 3 Workshop scheduling and launch

- Understand the roles of launching and scheduling.
- Know the different scheduling criteria, their relevance and limits.
- Manage priorities, to limit work-in-progress and be more reactive.

### Hands-on work

Feedback on prioritization. Application of relevant rules.

## 4 Procurement and inventory management with MRP

- Understand classic supply methods.
- Master the content and application of procurement plans.
- Visualize the compromise established by the economic order quantity formula.
- Master the elements of safety stock dimensioning.
- Manage inventory rigorously to enable reliable calculation of requirements.

### Hands-on work

Calculation of economic quantity and control of influencing parameters.

## 5 New modes of collaboration in the extended enterprise

- Understand new modes of customer-supplier collaboration.
- Choose the most appropriate flow management method.
- Reconcile pull and push flows via a production management model.

### Exercise

Beer game. Game and debriefing with concrete illustrations of how to implement the principles involved.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.

**REMOTE CLASS**  
2026 : 2 Mar., 21 May, 5 Oct.