

The Oliver Wight Public Course Portfolio

# Master Scheduling Course

## Detailed Description

Schedule your products to satisfy customers and support changes in demand while maximizing plant and supplier resources.



# Master Scheduling Course

## What is this course about?

The Oliver Wight Master Scheduling Course provides the tools you need to develop the role of Master Scheduler and supporting processes to a high level of performance in order to plan, communicate, and direct overall company activities, including marketing, sales, manufacturing, materials, engineering, and finance.

Master scheduling is crucial to maximizing the benefits of planning and control systems. Properly executed, your company can then do a good job of detailed material and capacity planning as well as establishing control and executing the business plan. To get the most out of any ERP system, you must excel at

master scheduling. The overall framework of master scheduling encompasses Integrated Business Planning (Advanced Sales and Operations Planning), long-range resource planning, rough-cut capacity planning, finishing or final assembly scheduling, and demand management/customer promising.

## Who is it for?

This course is for people who are concerned with the operation or design of the master schedule and Integrated Business Planning process. This includes people from the functions of materials, engineering, finance, master scheduling, manufacturing, sales, marketing, and customer service. Team attendance early in the process is encouraged.



“ Through the techniques discussed in this course, we were able to create a comprehensive master production schedule which has helped to synchronize our supply planning and establish a VALID production time line. ”

course participant



David Goddard, Lead Instructor

## This course includes

Our fast-paced course will give you the knowledge and powerful techniques you need to make your company more competitive:

- How to identify root causes of scheduling problems and correct them
- How to achieve 95% customer service levels with the available-to-promise function
- How to use firm-planned orders
- How to select effective strategies to group items
- How to identify the levels and items that need master schedule control
- How to leverage safety stock or safety lead times to hedge against demand or supply variations
- How to analyze the impact of changes to the master schedule before making them
- How to use rough-cut capacity planning to ensure realistic schedules
- How to use a typical MPS report and communicate desired actions

## Objectives and benefits

You will understand how to convince sales and marketing of their important role in ensuring that the master schedule balances supply and demand considerations and satisfies customers and available-to-promise information as a top-notch, customer-promising tool. We will teach you how to customize and apply a combination of finishing schedule mechanics to your business. You will be able to create a master schedule that becomes the master of all schedules which includes the purchasing, production, and engineering schedules.

### You will learn:

- How to manage the important link between master scheduling and material requirements
- How to determine the proper action in responding to exception messages
- How to keep the master schedule matched to production planning rates of families
- How to set lot sizes that reflect the reality of the manufacturing and supplier environments
- How to use proven techniques for managing changes to the master schedule as requirements are driven down from Integrated Business Planning

Other public courses available from Oliver Wight

---

Integrated Supply Chain Management

Demand Management

Integrated Business Planning (Advanced S&OP)

Product Portfolio and Optimization

Please scan QR  
code to book online.



“Employing Oliver Wight master scheduling methods, we increased manufacturing efficiencies in throughput 11.5% in the first six months and over 26% since attending the course.”

course participant

## Course Content - day one

### Introduction and Overview

- Class Introductions
- Symptoms and causes of MPS problems
- Anticipated build schedule
- Balancing supply and demand
- Ways to stabilize the master schedule
- How “Where you meet the customer” affects your manufacturing strategy
- Supply Chain Tensions

### MPS Mechanics

- The Objective Of Master Production Scheduling
- Independent Demand/Dependent Demand
- Rescheduling Time Zones
- Guidelines for Changing the MPS
- Planning Time Fence
- Master Schedule Change Management
- Safety Stock
- Keys to Effective Master Scheduling

### Sample Output Review (MTS)

- Samples Product Comparison
- Graphic Bill of Material
- Indented Bill of Material
- Time-Phased Bill of Material
- Master Schedule
- Material Requirements Plan
- MPS and Material Planning Responsibility

### Rough-Cut Capacity Planning

- Manufacturing Resource Planning
- Capacity Management
- Capacity Terminology
- Resource Profiles
- Research Profile Time
- Rough-Cut Capacity

### Two-Level MPS

- Product Profiles
- Product Example
- Modular Bills of Material
- Planning Bills of Material
- Backlog
- Forecast
- Total Demand

- Master Schedule
- Projected Available Balance
- Available to Promise
- Make-to-Stock

## Course Content - day two

### Sample Output Review (MTO)

- Objectives
- Samples: Product Comparison
- Planning Bills
- Common Parts Bills
- Time-Phased Bills
- End Item Number Significance
- Customer Order Entry
- Master Schedule

### Integrated Business Planning (Advanced S&OP) - the Master Scheduler's role in supporting the IBP process

- Integrated Business Model
- Characteristics of an Integrated Business Planning Process
- Supply Planning - Supply Review
- Role of Supply Planning Manager
- Supply Hierarchy
- Supply and Inventory Long Range Projections
- Resource Requirements Planning

### Other Environments

- Distribution Resource Planning
- Transportation Plan
- Interplant

### Implementation

- Effective MPS Implementation
- Getting Into an Overloaded MPS
- Getting Out of an Overloaded MPS
- Simulation Tools
- Required Policies and Procedures
- Samples
- Measurements

### Class A

- Integrating the Business
- The Maturity Journey
- Class A Checklist Best Practice Benchmarking

## About Oliver Wight

Oliver Wight has a 40-year track record of delivering business improvement to some of the world's best-known organizations. We believe that sustainable improvement can only be made through your own people. So unlike other consultancy firms, we transfer our knowledge to you, which means you can achieve performance levels and financial results that last.

At the leading edge of management thinking and practice, our Integrated Business Planning (IBP) model lies at the heart of our clients' journey to outstanding business performance. Oliver Wight originated Sales and Operations Planning in the 1970s, and Integrated Business Planning can most simply be described as advanced S&OP; evolving from its production planning roots over 40 years ago into the fully

integrated management and supply chain collaboration process it is today. Integrated Business Planning allows the senior executive to plan and manage the entire organization over a 24-month horizon, aligning tactical and strategic plans each month and allocating critical resources to satisfy customers in the most profitable way.



### **Oliver Wight Americas**

P.O. Box 368, 292 Main Street  
New London, NH 03257, USA

T: (800) 258-3862  
info@oliverwight.com

**[www.oliverwight-americas.com](http://www.oliverwight-americas.com)**

### **Oliver Wight Asia/Pacific**

131 Martin Street, Brighton  
Victoria 3186, Australia

### **Oliver Wight EAME LLP**

The Willows, The Steadings Business Centre  
Maisemore, Gloucester, GL2 8EY

*The information contained is proprietary to Oliver Wight International and may not be modified, reproduced, distributed, or utilized in any manner in whole or in part, without the express prior written permission of Oliver Wight International.*