master scheduling course

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

course overview

The Oliver Wight Master Scheduling Course provides the tools you need to develop master scheduling 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. Sales and operations planning, demand management, long-range resource planning, rough-cut capacity planning, finishing or final assembly scheduling and master scheduling must interact properly. Only then can your company do a good job of detailed material and capacity planning as well as establishing control and executing your business plan. To get the most out of any ERP system, you must excel at master scheduling. The overall framework of master scheduling encompasses sales and operations planning (Integrated Business Management), demand management, long-range resource planning, rough-cut capacity planning, finishing or final assembly scheduling, and master scheduling.

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together we make a difference

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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 sales and operations planning

day one

Introduction and Overview

- 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
- The computer's four primary functions
- The master scheduler's four primary functions
- How MPS drives material requirements planning

How MPS Plans/Controls Purchasing and Production

- Rescheduling time zones: Who approves schedule changes in each?
- Key questions to ask when considering adjustments to the master schedule
- Areas where safety stock can be applied
- Requirements of a good master scheduler
- The keys to successful MPS implementation

who will benefit from this course

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

day two

Working the schedule

- Understanding planning parameters
- Working the planning horizon to balance demand and supply
- Reacting to exception-driven action messages
- Rough-cut capacity planning

Option Planning and Available-to-Promise

- How to create the option forecast
- Creating the master schedule itself
- Understanding how the projected available balance affects the scheduling process
- Mechanics of generating available-to-promise information
- How to use the available-to-promise data to make good customer promises
- Using planning bills in the build-to-order environments
- Tying the master scheduling process to the sales and operations planning process

day three

Schedule Execution

- Identifying which finishing mechanic to use in various environments
- How to use production authorizations in the finishing process
- Using planning bills to create production instructions

Implementing Effective Master Scheduling

- Understanding the education and training requirements
- Working out of the overloaded master schedule
- Creating the necessary policies and procedures
- Identifying and implementing the proper performance measurements

MPS in Make-to-Order Environments

- Differences between master scheduling in a make-to-stock and make-to-order environment
- How to use planning, modular, and pseudo bills of material for linking options or modules to an overall planning family
- Over-planning as a hedge against demand variation in a make-to-order environment with minimal inventory investment
- Guidelines for creating or developing the master schedule in a make-to-order environment
- How ATP information can be developed so the master schedule becomes a customer order promising tool

Master Scheduling in Various Environments

- Special techniques to support new product introduction
- Steps for managing material and capacity in the engineer-to-order environment
- The differences between material- and capacity-driven environments
- Load leveling in seasonal or other environments with varying demand patterns
- Make-to-order or lot size environments versus repetitive or lean/agile approaches
- How to couple demand and supply in inter-plant or multi-division environments

Communicating the Finishing Schedule

- How the master schedule is communicated to maximize execution in the plant or factory
- Examples of finishing mechanics that help communicate customer requirements to the factory floor in different environments
- Environmental issues that affect your choice of finishing mechanics
- The role of Kanban or demand pull in the finishing schedule process
- The critical differences between master scheduling and finishing schedules (final assembly schedule)

Successful Approaches to Master Scheduling and Simulation

- Reasons why simulation or "what if…?" tools are needed
- Planning organizational considerations in job shop, flow, and lean/agile environments
- Sample master scheduling policy and procedure forms
- Measuring performance

the journey to business excellence

Oliver Wight are leading business improvement specialists who educate, coach and mentor people to lead and sustain change on the journey to business excellence and outstanding business performance. Oliver Wight is a worldwide consultancy with offices throughout Europe, in North and South America and the Asia/Pacific region.

At the leading edge of management thinking and practice, our unique Integrated Business Management process and Integrated Business Model lies at the heart of client journeys to business excellence. This model addresses all aspects of company planning and execution from the boardroom to working levels in manufacturing and service sectors. It provides one common agenda for your company with one set of numbers and one set of priorities. It links diverse processes in managing the extended supply chain, product and customer portfolios, customer demand, and strategic planning into one seamless management process.

The renowned 'Proven Path' process for change management lies at the heart of our approach to 'Integrated Change Management.' This integrates your strategic journey to excellence through major project management to everyday improvement programs ensuring they are visible and contribute to company goals. This process promotes sustainable change through line ownership for successful ongoing management, accelerating management processes and controlling waste and variability.

Your implementation is supported by our practical experience and knowledge through facilitation, coaching and education backed by our unique Class A Checklist, the longest-established business excellence assessment tool.

Course Duration and Hotels

The course runs three days, beginning at 8:00 a.m. on the first day and ending at 3:00 p.m. on the last day. As a convenience for participants, we reserve hotel rooms in the hotels where the courses are held. Just let us know your needs at the time of booking into the course.

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