

4 Days

## Manufacturing in Microsoft Dynamics NAV 2013

This four day course, Manufacturing in Microsoft Dynamics NAV 2013 provides applicants with the tools and information to help them better understand and identify the new and enhanced features of Manufacturing in Microsoft Dynamics NAV 2013.

### Course Details

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#### Course Outline

##### Module 1: Manufacturing Course Overview

- This module provides an overview of the Microsoft Dynamics NAV 2013 Manufacturing course. It also provides an outline and brief description of all course modules. Successfully completing this course helps the reader prepare for the Microsoft Dynamics NAV 2013 Manufacturing certification exam.

##### Module 2: Sample Company Structure

- A production Bill of Materials, BOM is a list of all the components and subassemblies used in the production of a parent item. The list includes the description, the quantity, and unit of measure of each component or subassembly.

##### Module 3: Production Bill of Materials, BOM

- A production bill of materials, BOM is a list of all the components required to produce a parent item. The list includes the description, quantity, and unit of measure of each component, in addition to other information.

##### Module 4: Basic Capacities and Routings

- The capacity setup establishes a model of the production environment. In a bakery, this could consist of a pastry area, a filling area, different types of ovens, and so on. The tasks that are performed in each area differ, and so does the capacity to perform these tasks.

##### Module 5: Production Orders

- You use production orders to manage the conversion of raw materials into manufactured products. Raw materials include purchased items and subassemblies, and are also known as components or component items.

##### Module 6: Production Order Processing

- You typically process a released production order through manufacturing until it is finished. This consists of the following tasks: Start the production order, Pick components from the warehouse, Consume raw material Record production output, Register consumption and output together in the production journal, Put away finished goods in the warehouse, Finish the production order and Production Order Processing describes these tasks in detail.

## Module 7: System Setup

- System setup explains the setup that is required for the manufacturing functionality in Microsoft Dynamics NAV, and the inventory setup that is related to manufacturing.

## Module 9: Sales Order Interface and Order Planning

- When a company becomes aware of new demand for its products, it must do the following: Make sure that it obtains the necessary supply of raw material and component subassemblies to meet the demand. Notify production personnel. Microsoft Dynamics NAV lets you achieve both goals by using one or more of the following three methods: Create a production order directly from a sales order. In the program, this is known as sales order planning, and is described in the Sales Order Planning lesson. Use the order planning functionality to create production orders directly for different types of demand, such as sales, production, service, and so on. This planning occurs for one level of the bill of materials, BOM at a time, and has many other limitations. Order planning is described in the Order Planning lesson. Use the planning worksheet to calculate a full regenerative or net change plan by using all demand and supply information that is available to the planning system. The planning worksheet is described in Planning and Additional Planning Topics in this training material.

## Module 10: Forecasting and Planning

- To successfully manage their business, many companies forecast future demand and plan their activities accordingly. In some cases, where the lead time for a product exceeds the delivery expectations of customers, an accurate forecast is the only way to successfully plan for the future. However, forecasting is not an easy task. An overly optimistic forecast can lead to excess inventory. Too pessimistic a forecast can lead to late deliveries or even lost sales, and will almost certainly lead to customer dissatisfaction. For manufacturing companies, it is important not only to be able to forecast sales, but also to plan how to fulfill those sales. For companies that operate in fast-changing markets, it is equally important to Reconcile forecasts to actual sales, Adjust forecasts on the fly, if necessary and Quickly adjust production plans to changed forecasts.

## Module 11: Planning

- Planning describes the regenerative planning and net change planning functions in Microsoft Dynamics NAV. It also explains order tracking and action messages. Together these functionalities contain the core of the program's planning capabilities.

## Module 12: Additional Planning Topics

- Additional Planning Topics examines planning issues that are related to the following:

1. Item variants, Inventory locations and stock keeping units, SKUs, Transfers between warehouses, Blanket sales orders, Multilevel production orders

- This material also explains how to do the following:

1. Set filters in the planning worksheet.
2. Change the replenishment system for a planning line.
3. Refresh planning lines.

## Module 13: Subcontracting

- A subcontractor is a vendor who performs one or more operational steps in the production process. Depending on the company, subcontracting can be an exception in the production process or an important part of it. This training material describes how to process subcontract work in Microsoft Dynamics NAV from setup until the work is finished. It also explains how to obtain information on subcontracting operations and ledger entries.

## Module 14: Advanced Capacity

- Advanced Capacity examines the capacity setup that is required to run production planning with constrained resources. You plan with constrained resources when bottlenecks appear in the production environment.

- First, set up the work center group, work center, and machine center hierarchy. Then define the shop calendars and capacity calendars. This establishes the base capacity for each work center or machine center.
- Next, register planned absences for each facility. This helps the program calculate accurate capacity calendars for each facility. Finally, you consume capacity through either posting of production order operations, or directly to facilities through entries in the capacity journal.

### Module 15: Shop Loading

- When you create work centers and machine centers in Microsoft Dynamics NAV, you define a company's manufacturing capacity. Suppose that a company has a machine center that performs the final assembly of products. If that machine center operates five days a week for 10 hours a day at one hundred percent efficiency, then the company has a capacity of 50 hours a week for final assembly.
- When you plan or schedule a production order for manufacturing, you create demand for the work centers and machine centers that are required to process that production order. For example, if you release a production order that requires 30 hours of final assembly work, that production order represents 30 hours of demand for the machine center that performs the final assembly task.
- When you compare demand to capacity for a work center or machine center, you measure the load for that production facility. For example, when you schedule 30 hours of work in a week for a machine center that has a capacity of 50 hours, that machine center has a load of 60 percent for that week.

### Module 16: Additional Manufacturing Topics

- Additional Manufacturing Topics describes several advanced manufacturing features that are offered by Microsoft Dynamics NAV. These include the following:
- Standard tasks, Stop codes, Additional scrap-related features, Methods to define and record non-productive time, Methods to reduce lead time, Multilevel production orders and
- Production families.

## Who Should Attend

The primary audience is a Partner that sells and implements NAV 2013. This person typically investigates the customer

## Pre Requisite

Before attending this course, students must have:

In addition to their professional experience, professionals who attend this training should have technical working knowledge of past versions of Manufacturing in Microsoft Dynamics NAV

- 80260 Manufacturing I in Microsoft Dynamics NAV 2009
- 80261 Manufacturing I in Microsoft Dynamics NAV 2009

## Exams

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