

# USING MICROSOFT DYNAMICS GP 2010R2 FOR AN ENTERPRISE RESOURCE PLANNING COURSE: A CURRICULUM PACKAGE

**Gyu C. Kim**  
Northern Illinois University, College of Business  
DeKalb, IL 60115, 815-761-7328, gkimhusker@gmail.com

**Stacy S. Kim**  
Microsoft, Information Technology and Services  
Fargo, North Dakota, 701-492-3715, skim.stacy@live.com

## Course Objectives

The objective of this course is to provide students with a thorough understanding of computer based Enterprise Resource Planning (ERP) Systems. This course will explore a variety of ERP topics, including TQM, BPR, DRP, SCM and CRM, as well as the detailed system development and system implementation issues of ERP. This class provides hands-on experience in which each student will be required to create his or her own company and manage the various functions of the company's business, such as Human Resources, Finance, Accounting, Manufacturing, Sales, Purchasing and Supply Chain Management. Consequently, the format of this course includes both lectures and computer lab settings. By successfully completing this course, students should be able to:

1. Describe ERP, its strategic utilization, cost, and feasibility.
2. Describe the issues related to ERP implementation projects.
3. Explain the concepts and issues involved in BPR management at the corporate and personal level.
4. Understand the installation and configuration of Microsoft Dynamics Great Plains Version 11.0.
5. Understand business processes and gain hands on experience with Microsoft Dynamics Great Plains Version 11.0.

## Recommended Resources

The following resources are not required. However, they will help in understanding the many concepts, terms, and manufacturing processes that are necessary in order to be successful in the course.

1. *The Fundamentals of Production Planning and Control*. Stephen N. Chapman. North Carolina State University, Chapel Hill. ISBN-10: 013017615X, ISBN-13: 9780130176158. Publisher: Prentice Hall, Copyright: 2006
2. *Concepts in Enterprise Resource Planning*. Ellen Monk and Bret Wagner. Thompson Course Technologies, 3<sup>rd</sup> edition. ISBN: 1-4239-0179-7.
3. **ERP Software**: Microsoft Dynamics GP - Great Plains 2012R2 - Version 11.0, Microsoft.

## Course Points

Final Exam: 30%      Great Plains Homework: 70%

## Tentative Class Schedule

Week 1 Introduction to course, Introduction of ERP and Great Plain

Great Plain Installation, **Company Creation and Configuration**

Week 2	<b>Human Resources Module 1</b> Aggregate planning / Forecasting
Week 3	<b>Human Resources Module 2</b> <b>Manufacturing Module Installation and Setup</b>
Week 4	<b>General ledger module setup</b> <b>Manufacturing Module part 1</b>
Week 5	Master production Schedule [MPS] <b>Manufacturing Module part 2</b>
Week 6	<b>Sales / Purchasing Modules Installation and Setup</b> Material Requirements Planning [MRP]
Week 7	<b>POP [Purchase Order Processing] Exercise</b> Inventory Management
Week 8	<b>SOP [Sales Order Processing] Exercise – Regular due</b> Capacity Requirements Planning [CRP]
Week 9	<b>MOP [Manufacturing Order Processing] Exercise</b> Lean Manufacturing system in ERP
Week 10	<b>SOP [Sales Order Processing] Exercise – Quote</b> Business Process Reengineering [BPR]
Week 11	<b>SOP [Sales Order Processing] Exercise – Back Order</b> Supply Chain Management [SCM]
Week 12	<b>PO / SO Return transactions, Weekly Exercise 1</b> Distribution Requirements Planning [DRP]
Week 13	<b>Weekly Exercise 2</b> Customer Relations management [CRM]
Week 14	<b>Weekly Exercise 3</b>
Week 15	<b>Final Weekly Exercise, Enterprise Resource Planning [ERP] and beyond</b>
Week 16	<b>Final Exam</b>

### Case Example: Big Red Wagon Manufacturing



The Big Red Wagon Manufacturing Corporation (BWMC) is a national manufacturer of wagons. Within the United States, BWMC is organized into regional divisions. Each division has a territory in which to conduct its business. The management of each division is responsible for the production, marketing and distribution of all Big Red Wagon products within the territory. During the last month, Big Red Wagon opened a new territory named the Illinois Region. Previously, the BWMC had refrained from developing this region because of the competition of other wagon production companies in that area. However, having developed their new wagon called the Little Red Wagon Limited (LRWL), the corporation felt confident they could successfully compete against any other existing wagon production company. In establishing the Illinois territory, the management group in charge of the region developed a market forecast report to guide their production, marketing and distribution decisions.

Based on the market forecast report, the Illinois region would generate a weekly demand of LRWL model of approximately 50 wagons. In order to manage the Illinois region, BWMC hired a real estate specialist to acquire existing plants with sufficient space to allow production capacity to meet the forecasted weekly market demand of all three of its models: the Little Red Wagon Basic (LWRB), the Little Red Wagon Deluxe (LRWD), and the LRWL. The company made it their policy to acquire existing plants rather than building new ones. This permitted them to expedite their production efforts and to avoid the usual legal problems associated with building a new plant. One plant with an office was eventually acquired that collectively provide adequate production space. The plant was located in northern part of the Illinois and was selected to primarily serve the cities in that area.

After a few months of operation, this plant reached its maximum weekly production rates that were enough to meet the market demand for all three models of the northern Illinois cities. At the same time the plant was being obtained, a warehouse was also acquired. This warehouse would store the finished wagon units and receive shipments from vendors who would provide parts or components to build wagons. In selecting the warehouse location, the principal criterion was based off of its physical proximity to consumer markets. The warehouse acted as a distribution center for the markets, providing wagons to meet market demand in smaller cities throughout Illinois.

### **GP System Installation and Configuration**

This exercise is comprised of the overall SCM business process, which includes MOP, POP, SOP and inventory management. Students will need to follow these instructions to ensure that each step and module is completed for each weekly exercise. If any data is missing or incorrectly entered for your company, the subsequent assignments will not work properly and will end up corrupting the company's database. If this occurs, the company and database will be restored back to the original default company and the student will need to start his or her data entry from the beginning again.

The grading of the weekly exercise will be calculated based on the progress that has been made by the due date of each weekly exercise. Because of this, students cannot gain credit for any portions of the assignment that are completed after this date has passed.

The following installation tasks are explained and demonstrated in the computer lab for understanding system setup and configuration of Dynamics GP before any business processes are introduced to students.

1. System Requirements of Dynamics GP.
2. Installation of Microsoft SQL Server 2008R2 on the server
3. Data Server Installation and Utilities
4. Installation of Dynamics GP Client on lab computers
5. Dynamics GP System Manager and System Setup
6. System Security, User Activity and Preferences

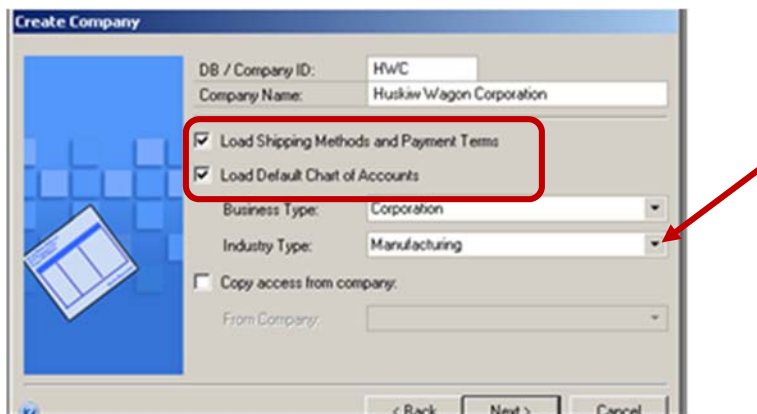
### **Company Creation**

1. Each student is required to create and name his or her own company and can name his or her own company.
2. Companies will be created using Dynamics GP Utility (with the server "Administrator" as the user type).
3. Each student is required to manage own company's business processes throughout the semester (with "Power user" as the user role).

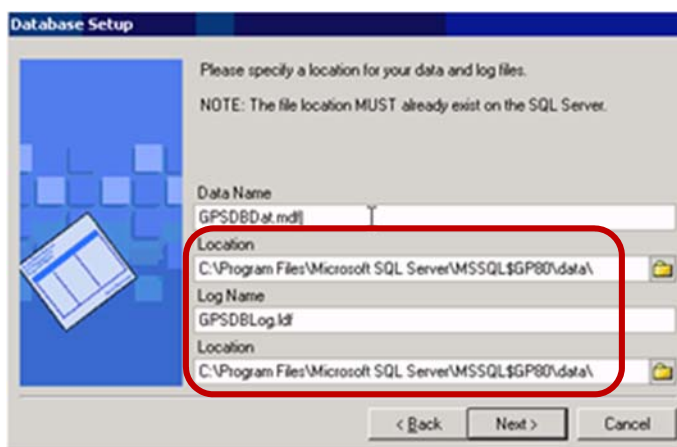
At the next screen:

1. Enter the initials [3 or 4 capital letters] of your own company name in the 'DB / Company ID.'
2. Enter your full company name in the 'Company Name.'
3. Check 'Load shipping method and payment terms.'
4. To load a default chart of accounts, mark the 'Load Default Data' option, and then a drop down menu will appear.
5. Select the 'Corporations' for the 'Business Type.'

6. Select the 'Manufacturing' for the 'Industry Type.' Click 'Next.'



7. In the Database Setup window, select a default location for the new files that will be created. Make sure the hard drive locations of the Data Name file [\*.mdf] and Log Name file [\*.ldf] are the same as the following:



8. The Company Setup Options window will appear, where you can select one of the following options to configure your company. Select the 'Set up the company later' option to set up your company at another time.
9. Once the company is created, each student can login his or her company to setup the modules of the company.

### Human Resource Module Setup

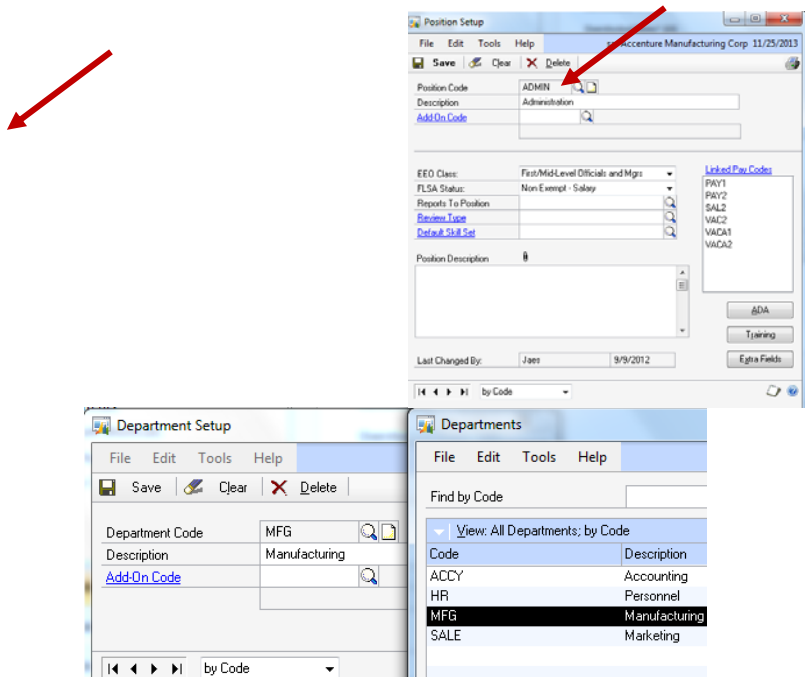
The following setup activities are required in the HR module to setup and run business processes properly:

1. Organization setup (4 departments and 1 manufacturing department).
2. Hiring of 6 employees (3 full time and 3 part time).
3. Setup employees and employee classes.
4. Supervisor setup and assignment of employees to department.
5. Payroll setup, utilities, pay codes, deduction, state/federal tax code setup.
6. Employee maintenance, attendance setup, sick/vacation pay code.
7. Payroll processing and period/year end.

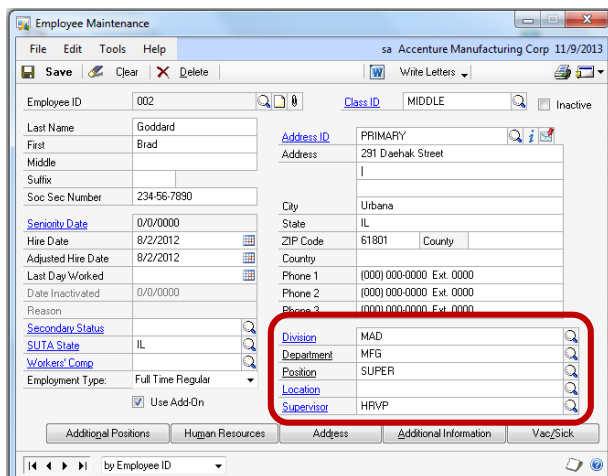
- Monthly payroll transaction entry to process payroll for 6 employees.

**To setup the HR module:**

- Go to Microsoft Dynamics GP >> Tools >> Setup >> Payroll >> Department to create four departments.
- Go to Microsoft Dynamics GP >> Tools >> Setup >> Payroll >> Position to create four position codes.



- Go to Cards>> Human Resources >>Employee>> Employee to enter the six employee’s data.

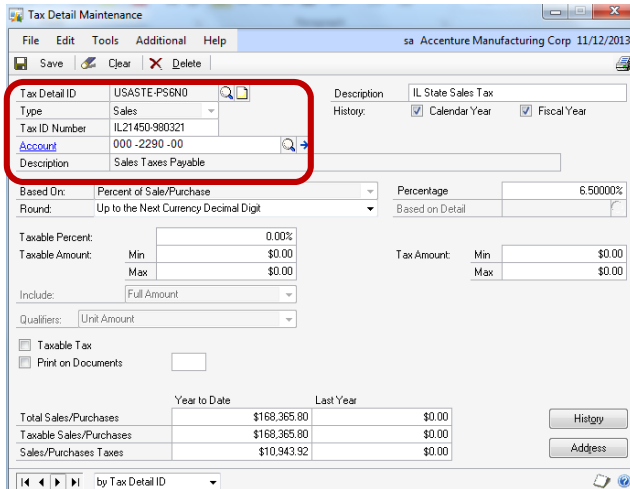


**Financials Module Setup**

The following setup activities are required to run business processes properly:

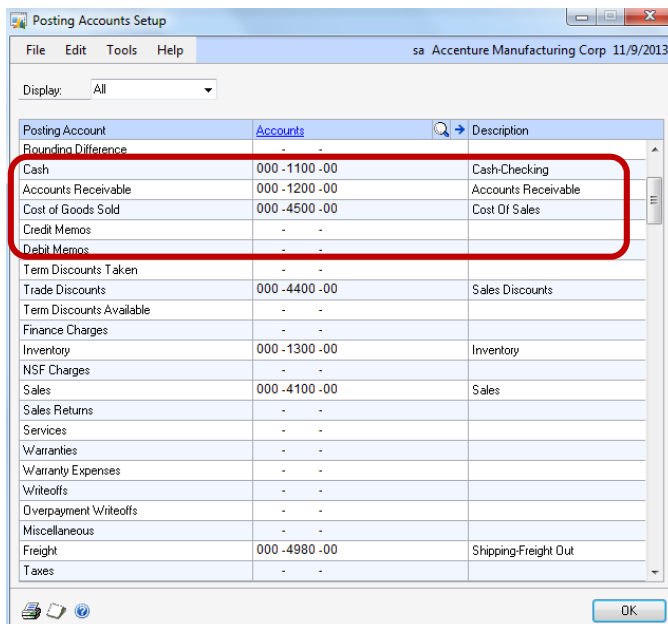
- Posting setup, posting journals, posting transactions and batches.

2. Shipping methods, tax schedules and tax details (sales and purchasing tax).
3. Using [ILSALES] tax schedule ID for 'Sales' and use [ILPURCH] tax schedule ID for 'Purchase.'

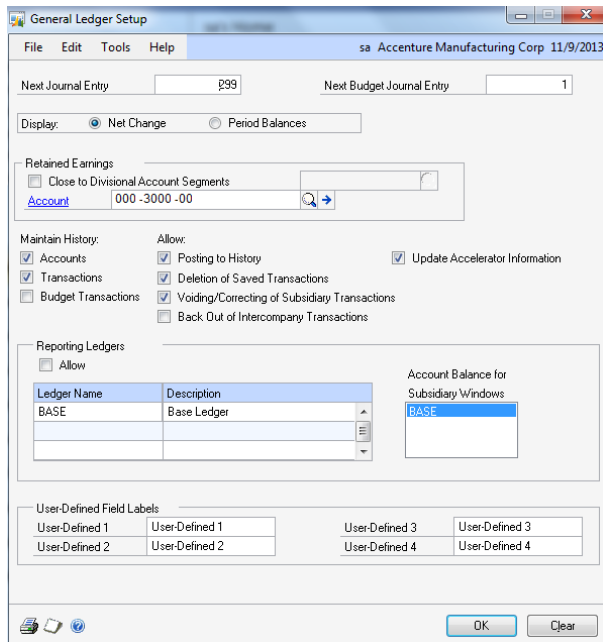


4. Fixed and variable allocation accounts.
5. Setting up loan account and checking account, setup for bank reconciliation.
6. Entering and posting account payable/receivable transactions and deposits.
7. Entering and posting general ledger transactions/batches.
8. Financial statements, reports & inquiries.
9. Period & year-end procedures/processes.
10. Setting up for General Ledger and setting up the Chart of Accounts (from Fabrikam).

**To set up default posting accounts:** Go to Microsoft Dynamics GP >> Tools >> Setup >> Posting >> Posting Accounts



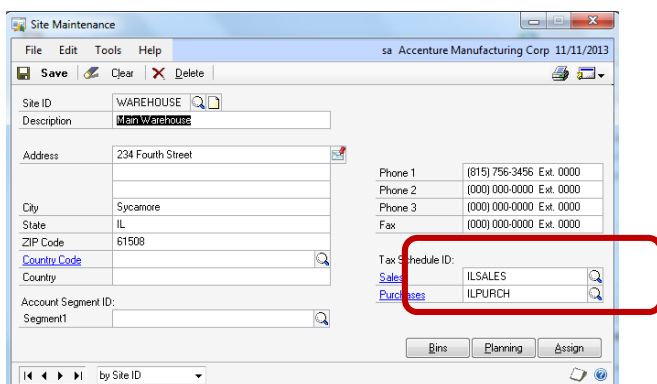
**To set up default entries and preferences of General Ledger Setup:** Go to Microsoft Dynamics GP >> Tools >> Setup >> Financial >> General Ledger



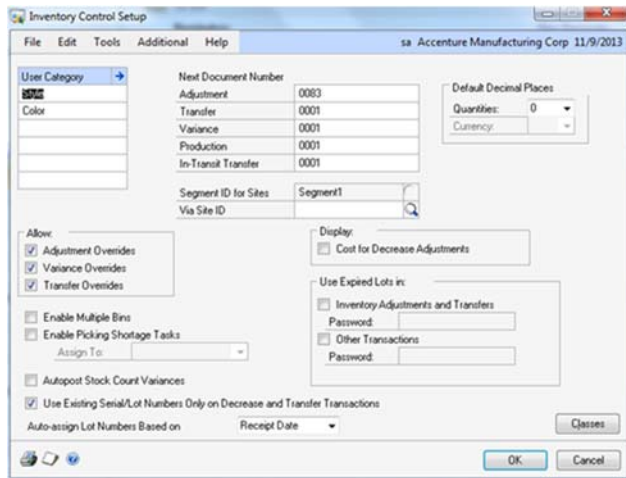
### Inventory Management Setup

The following setup activities are required to run business processes properly:

1. Warehouse setup and maintenance: To define a site: Go to Cards >> Inventory >> Site.
2. Enter an identifier [WAREHOUSE] for the Site ID and a brief description [Main Warehouse] for the site.
3. Enter the address information of your choice. Enter one phone number.
4. Select tax schedules that apply to merchandise sold at this site, and to merchandise delivered to this site.
5. Use [ILSALES] tax schedule ID for ‘Sales’ and use [ILPURCH] tax schedule ID for ‘Purchase’
6. Click ‘Planning’ button. Click ‘Yes’ to the popup of “Do you want to save changes for this setup?”
7. The ‘Resource Planning Site Maintenance’ window opens. Ensure the ‘Warehouse’ has been selected for the ‘Site ID. Ensure the checkmark at the ‘Calculate MRP for this site.’



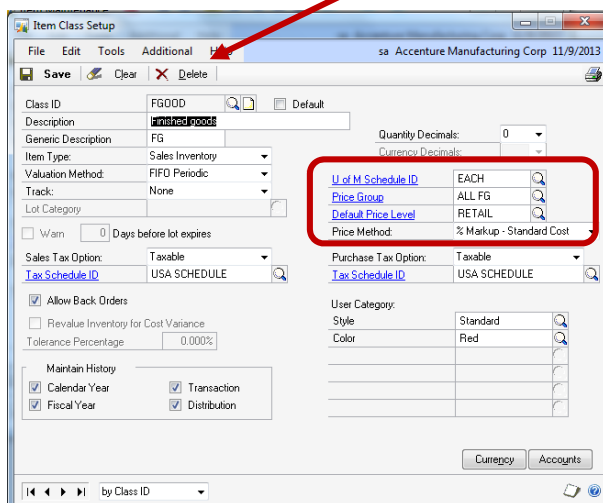
**Inventory Control Setup:** Go to Microsoft Dynamics GP >> Tools >> Setup >> Inventory >> Inventory Control



**To setup item class and setup posting accounts - Three item classes are created – RAWM, WIP and FGOOD**

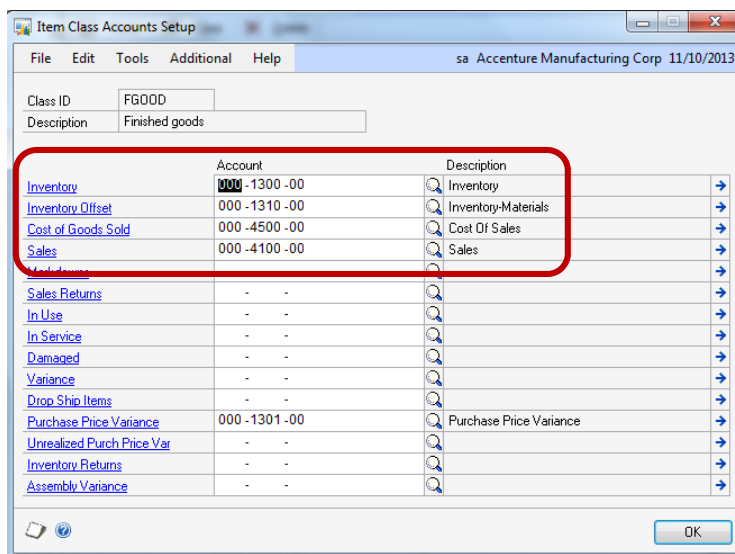
Go to Microsoft Dynamics GP >> Tools >> Setup >> Inventory >> Item Class

Finished good item class



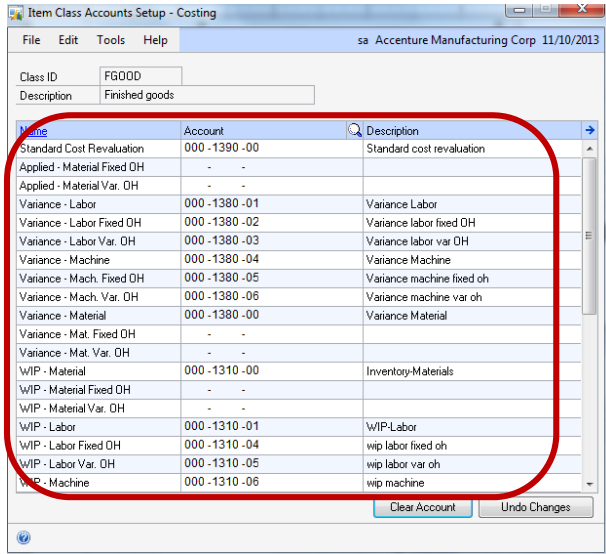
**Each item class must have following default posting accounts assigned before each SKU items are created.**

Default accounts setup for each item class



**Default costing accounts setup for each item class**





**Item Setup and Maintenance - Create 3 FG items, 6 WIP items and 11 RawM items as shown below:**

Finished Product / Make item: Manufacturing Order [MO] Required [3]

LRWB            FG-Basic                            LRWD            FG-Deluxe  
 LRWL            FG-Limited

Work-in-process / Subassembly: Make item: MO Required [6]

FSB    WIP-Frame Set Basic            FSD    WIP-Frame Set Deluxe  
 FSL    WIP-Frame Set Limited        WS    WIP-Wheel Set  
 WSD    WIP-Wheel Set Deluxe            HS    WIP-Handle Set

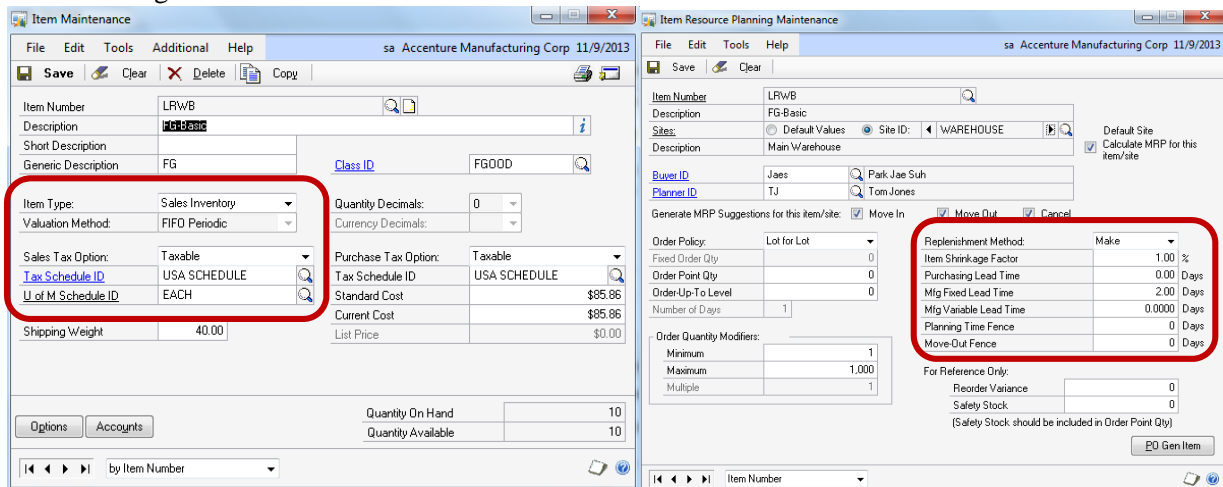
Raw Material / Components - Buy item: Purchase Order Required [11]

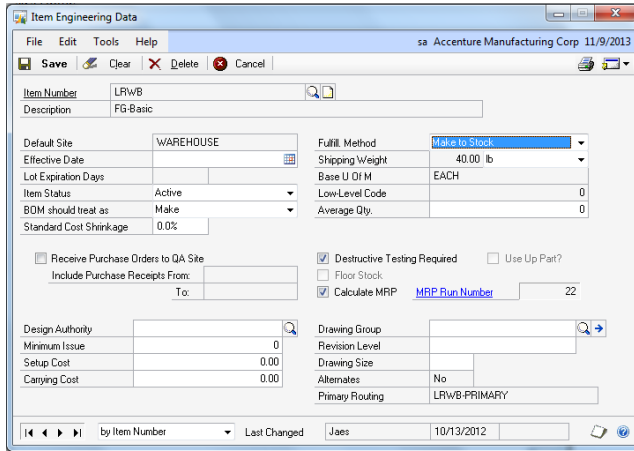
BB - Body Basic                    BD - Body Deluxe                    HAND – Handle  
 FP - Front Panel                    RP - Rear Panel                        BAR  
 WHEEL - Wheels                    AXLE – Axle                            CAP- Caps  
 FL - Front Light                    RL - Rear Light

1. Setup **Item resource planning**: Make-to-order, Make-to-stock
2. Setup **Item engineering record**: Lot sizing techniques – EOQ, PPB, POQ, LUC, LTC

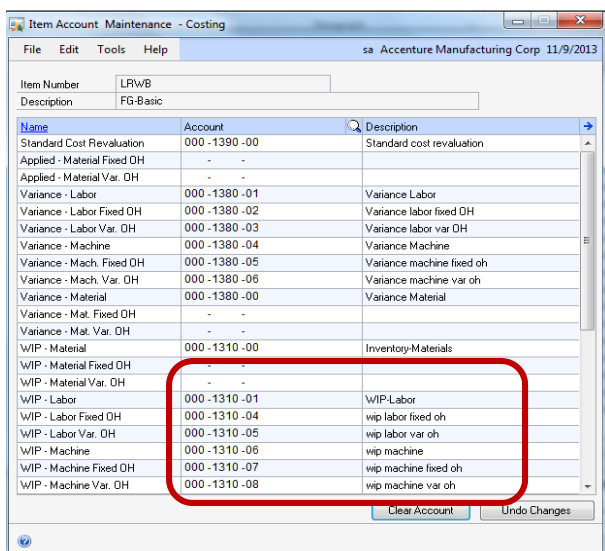
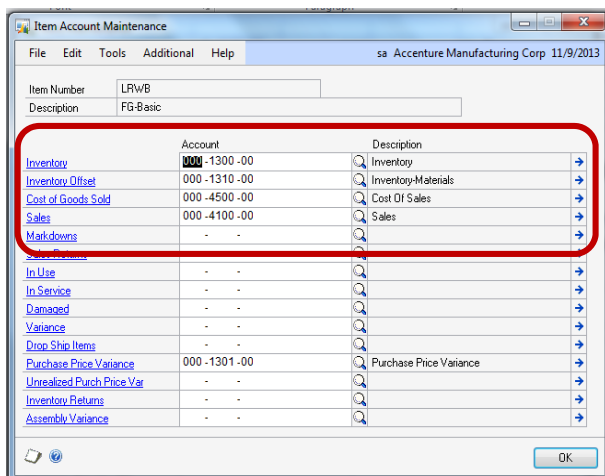
Each SKU item must have details of ‘Item Maintenance’, ‘Item Resource Planning Maintenance’ and ‘Item Engineering Data.’

The following screen shot shows detail windows of **LRWB** item.





All SKU items (FGOOD, WIP and RAWM) should have its own posting accounts on Item Account Maintenance and Costing window as shown below.

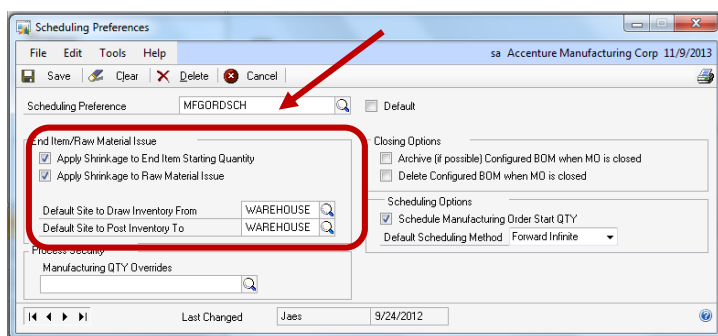


## Manufacturing Module Setup

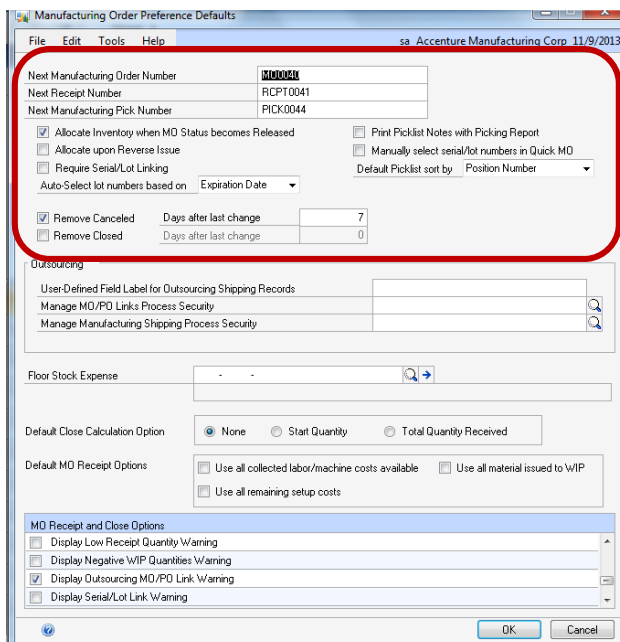
The following setup activities are required to run business processes properly:

1. Warehouse assignment of all items.
2. Setup Bill of Materials (Mfg BOM for three levels).
3. Setup Operation schedule, Routings and Sequence.
4. Manufacturing Facility – Setup 3 Work Station and 3 Machine Center.
5. Setup Forecasting and setup MPS - Master Production Scheduling.
6. Setup MRP - Material Requirements Planning and MRP Regeneration.
7. Setup CRP - Capacity Requirements Planning, setup MOP / SOP link and MOP / POP link.
8. Setup outsourcing vendor and processes, setup quality control process.

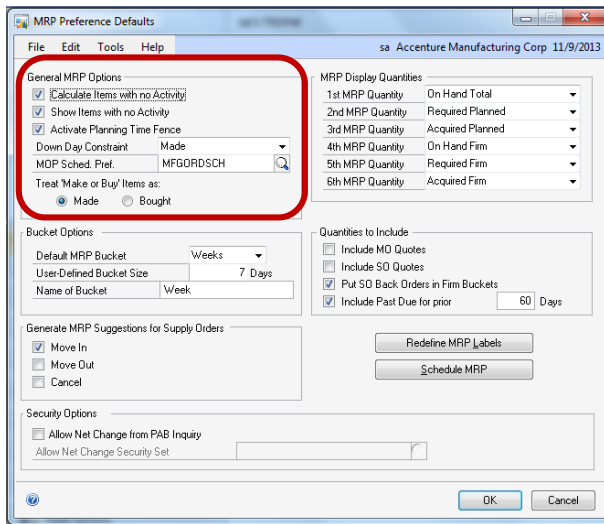
**To set up Manufacturing Scheduling Preference:** Go to Microsoft Dynamics GP >> Tools >> Setup >> Manufacturing >> System Defaults >>MO Schedule Preferences.



**To set up Manufacturing Order Processing:** Go to Microsoft Dynamics GP >> Tools >> Setup >> Manufacturing >> System Defaults >>Manufacturing Orders.



**To set up MRP Preference Details:** Go to Microsoft Dynamics GP >> Tools >> Setup >> Manufacturing >> System Defaults >> MRP.

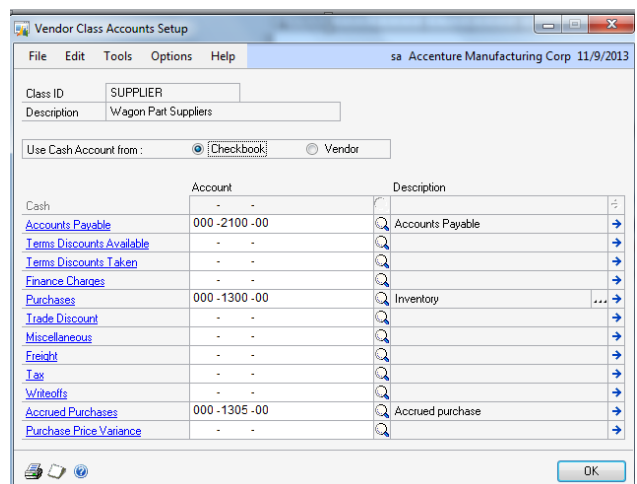
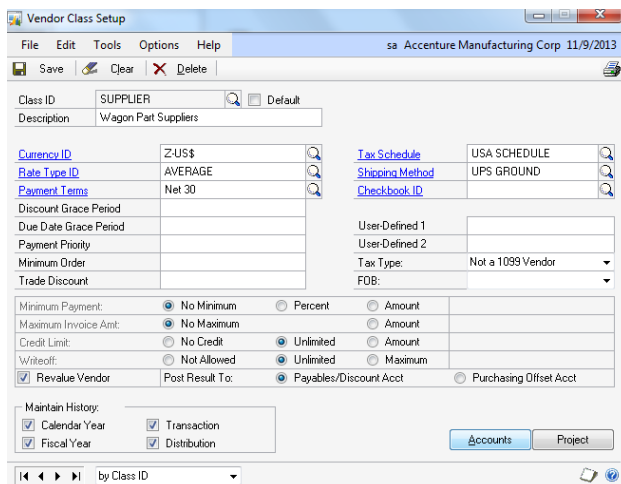


### Purchase Order Processing Setup

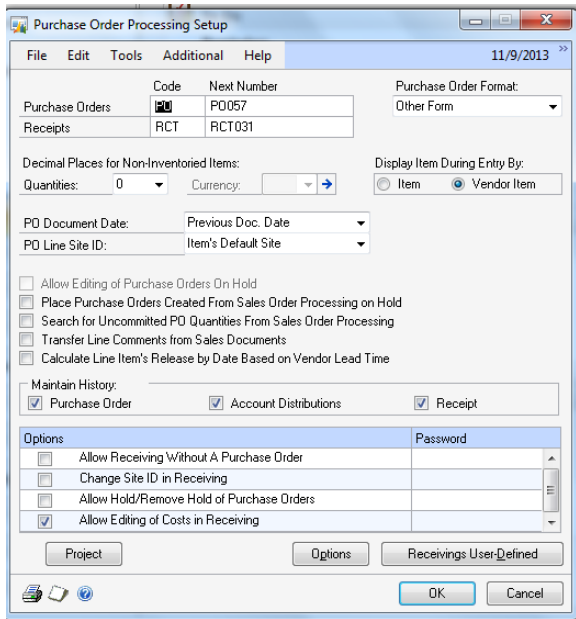
The following setup activities are required to run business processes properly:

**To setup Vendor Setup and Vendor Class ID (4 vendors + 1 outsourcing):** Go to Microsoft Dynamics GP >> Tools >> Setup >> Purchasing >> Vendor Class

1. The 'SUPPLIER' Class ID is created and Vendor class accounts are assigned.



**To setup Purchase Order Processing Preferences and Default Setup:** Go to Microsoft Dynamics GP >> Tools >> Setup >> Purchasing >> Purchase Order Processing



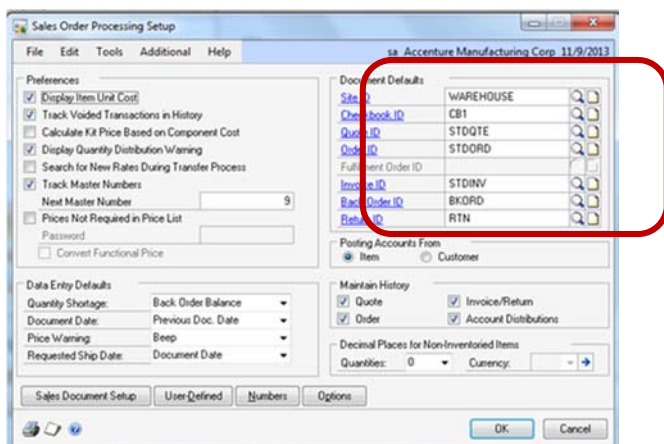
### Sales Order Processing Setup

The following setup activities are required to run business processes properly:

1. General Sales Order Processing Setup and Transaction Entry.
2. Setting up Sales Territories & Salespeople.

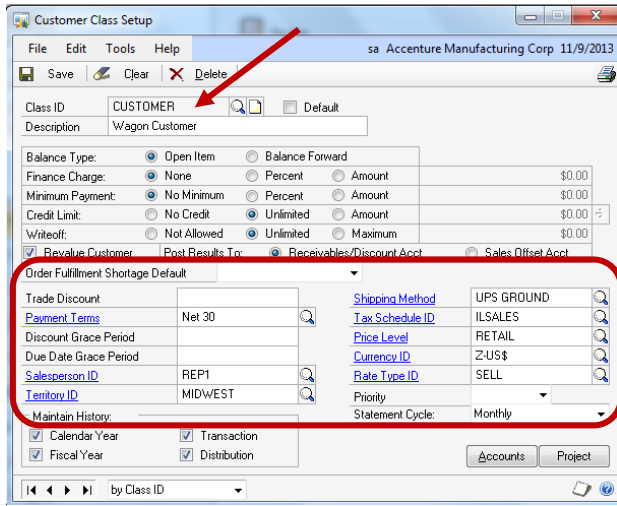
**To setup Sales Order Processing DEFAULT entries:** Go to Microsoft Dynamics GP >> Tools>> Setup >> Sales >> Sales Order Processing

1. Specify how Sales Order Processing transactions will be tracked and displayed during transaction entry.
2. Setup for Quotes, Orders, Back Orders, Invoices and Returns for 3 customers.



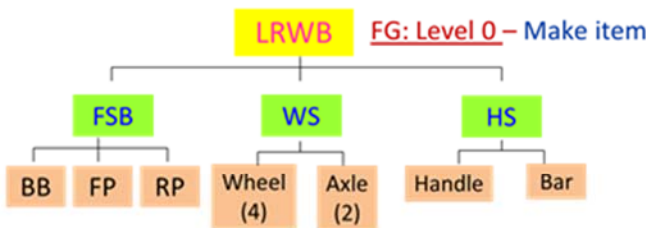
**To setup Customer ClassID:** Go to Microsoft Dynamics GP >> Tools >> Setup >>Sales >> Customer Class

1. The 'CUSTOMER' Class ID is created and Customer class accounts are assigned.



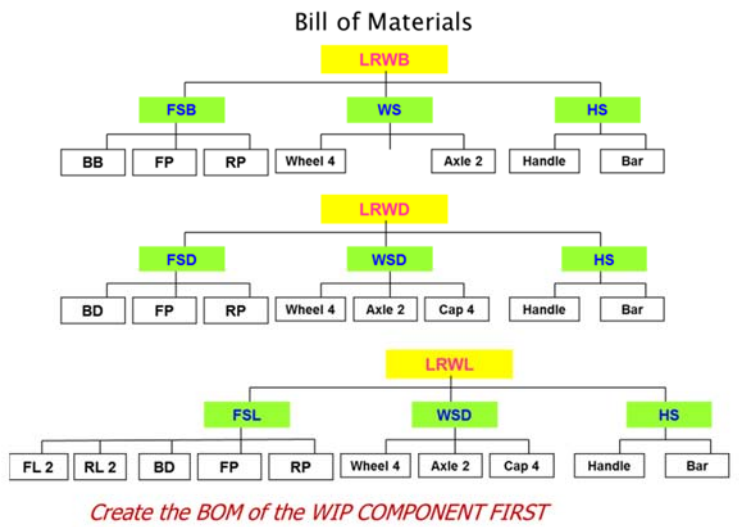
Once all details of item's data are entered, the product structures with routing information of the three types of wagons need to be created as shown below:

### How to build Wagon?



WIP: Level 1 – Make or Buy item

RAWM: Level 2 – Buy item



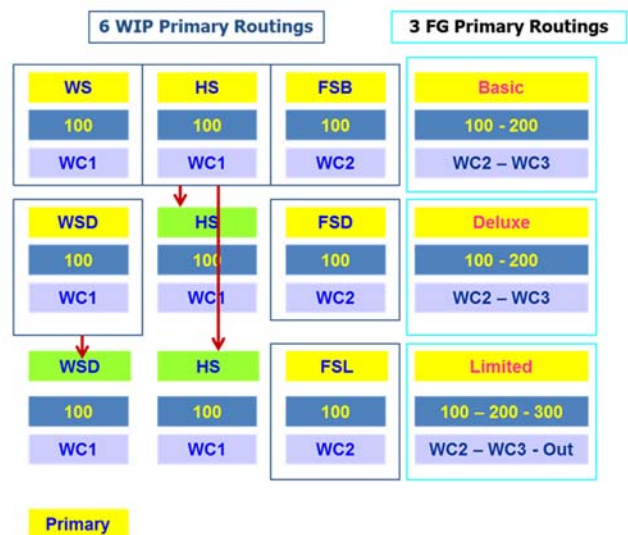
LRWD: Red wagon Deluxe

Routing Sequence: 100 - 200

100: Components Preparation [WC1 → WC2]

200: Final Assembly [WC2 → WC3]

### Primary Routing



LRWL: Red wagon Limited

Routing Sequence: 100 – 200 - 300

100: Components Preparation [WC1 → WC2]

200: Final Assembly [WC2 → WC3]

300: Decal job [Outsourcing]

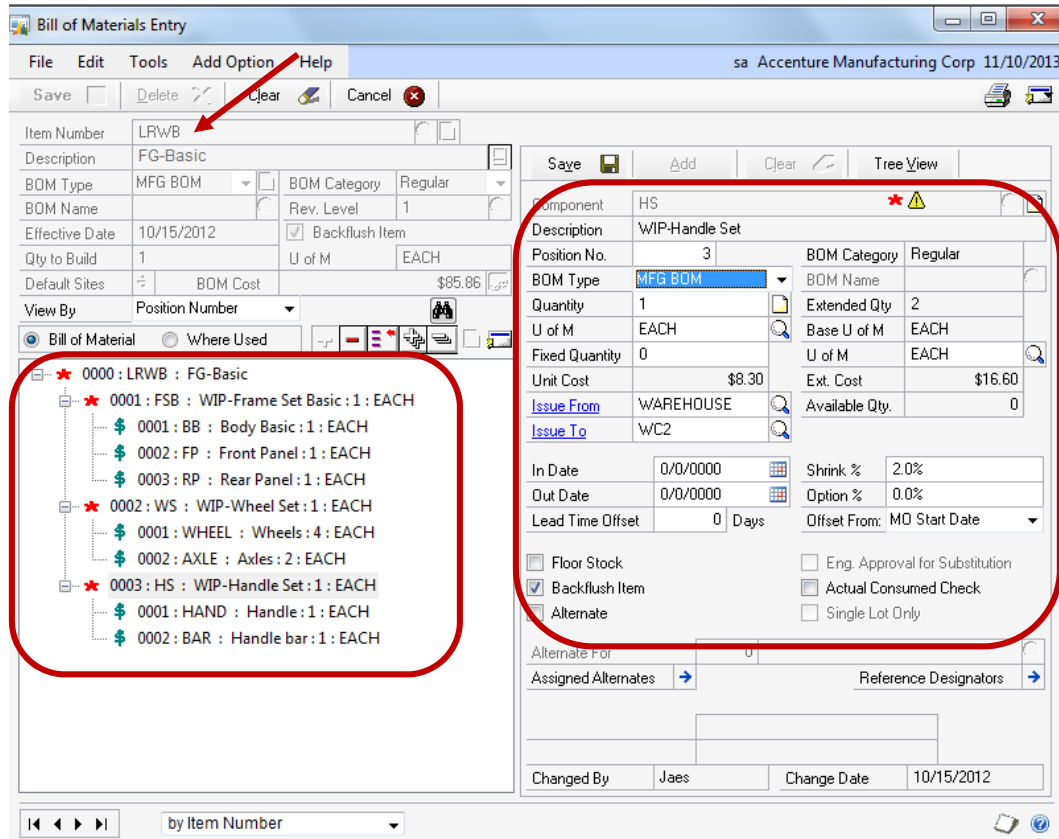
LRWB: Red wagon basic

Routing Sequence: 100 - 200

100: Components Preparation [WC1 → WC2]

200: Final Assembly [WC2 → WC3]

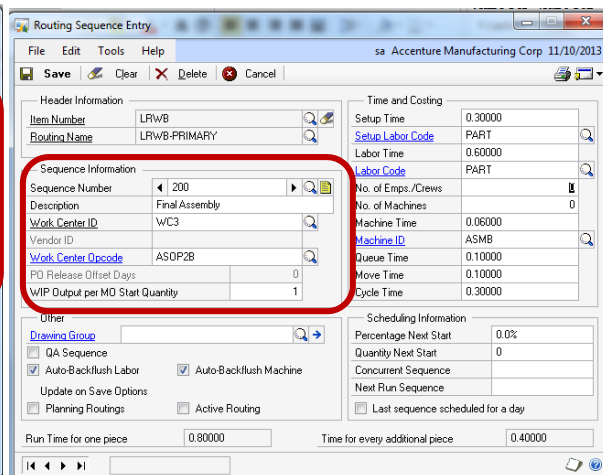
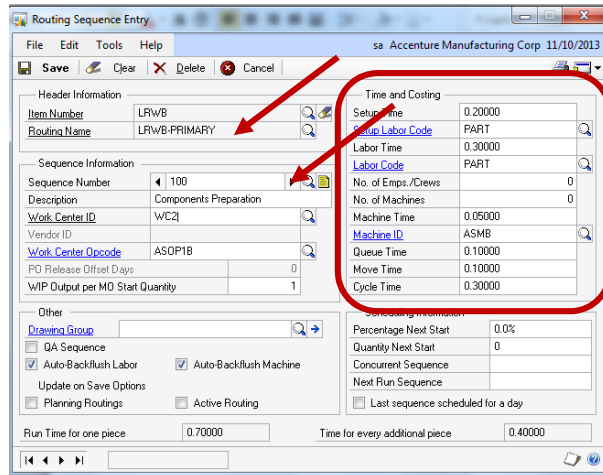
**You can create the BOM of the LRWB items as shown below: Go to Cards << Manufacturing << Bills of Materials**



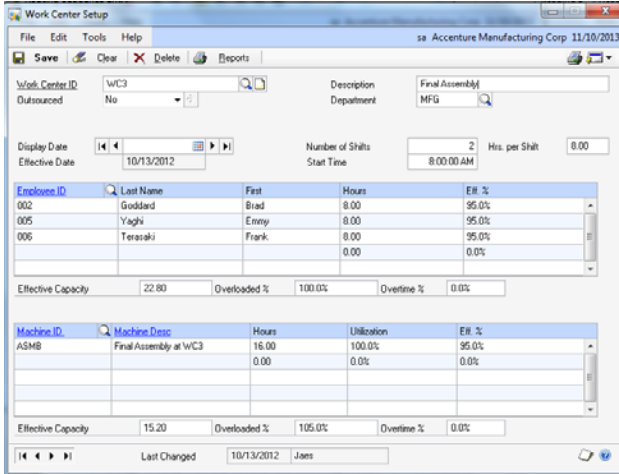
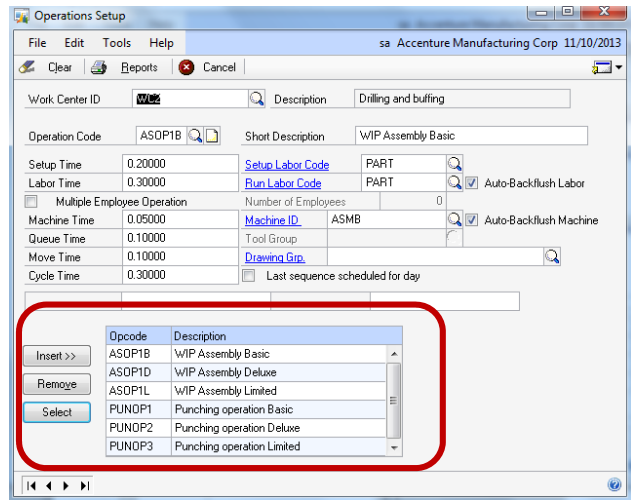
**You need to enter the routing data of the LRWB (Routing 100 and 200) item as shown below: Go to Cards << Manufacturing << Routings << Routing Entry**

**Routing 100**

**Routing 200**

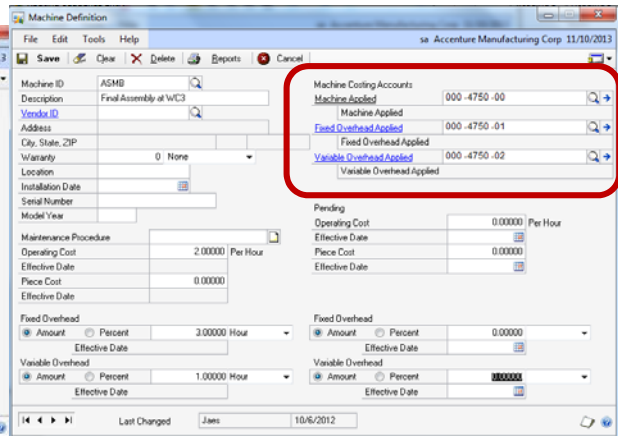
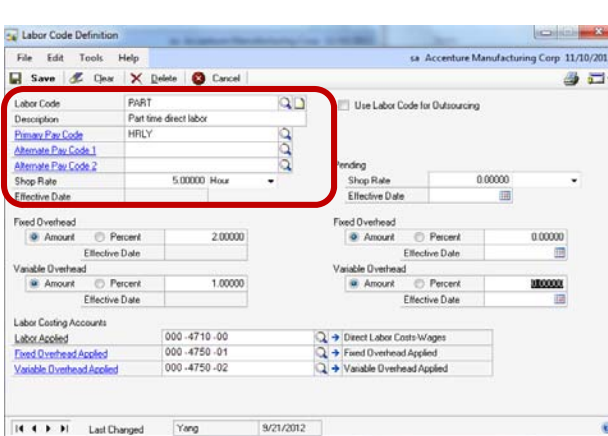


‘Work Center Setup’ by ‘Work center ID’ link. ‘Operations Setup’ by ‘Work center Opcode’ link.



‘Labor Code Definition’ by ‘Setup Labor Code’ link.

‘Machine Definition’ by ‘Machine ID’



After the details of BOM, Routing, and Operation schedule are entered, the Standard Cost Structure can be calculated as shown at the ‘Standard Cost Change’ window below. The price level of each finished good also can be calculated as shown at the Item Price Maintenance window below:

Go to Cards << Manufacturing << Inventory << Std. cost change

Model LRWB



This screenshot shows the 'Standard Cost Changes' interface. The left pane displays a Bill of Materials tree for item LRWB. The right pane shows a table comparing current and proposed standard costs:

	Current Standard Cost	Proposed Standard Cost	Set to Zero
Material	\$50.00	\$50.00	<input type="checkbox"/>
Fixed Dhd	\$0.00	\$0.00	<input type="checkbox"/>
Variable Dhd	\$0.00	\$0.00	<input type="checkbox"/>
Labor	\$21.00	\$21.00	<input type="checkbox"/>
Fixed Dhd	\$8.40	\$8.40	<input type="checkbox"/>
Variable Dhd	\$4.20	\$4.20	<input type="checkbox"/>
Machine	\$0.72	\$0.72	<input type="checkbox"/>
Fixed Dhd	\$1.13	\$1.13	<input type="checkbox"/>
Variable Dhd	\$0.41	\$0.41	<input type="checkbox"/>
<b>Total</b>	<b>\$85.86</b>	<b>\$85.86</b>	

Go to Cards << Inventory << Price list

This screenshot shows the 'Item Price List Maintenance' window. A red box highlights the 'Price Method' dropdown, which is currently set to '% Markup - Standard Cost'. Below it is a table of price lists for item LRWB:

Currency ID	Start Quantity	End Quantity	Price
BODG	Set	40.00%	\$240.41
Z-US\$	1		999,999,999,999
CLEAR	EACH	30.00%	\$111.62
Z-US\$	1		999,999,999,999
RETAIL	EACH	50.00%	\$128.79
Z-US\$	1		999,999,999,999
RETAIL	Set	50.00%	\$257.58
Z-US\$	1		999,999,999,999

**Vendor:** There are four vendors and each vendor should be assigned to ‘SUPPLIER’ class ID

1. Name: Wagon Body Inc (WBI)                      Name: Big Red Panel Corp (BRPC)
2. Name: Fancy Wagon Light Corp. (FWLC)        Name: Go Wheel Mfg. (GWM)

Ex: Big Red Panel Corp maintenance and Vendor account maintenance window.

This screenshot shows the 'Vendor Maintenance' window for BRPC. The Vendor ID field is highlighted with a red box. The 'Class ID' field is set to 'SUPPLIER'. Other details include the primary address (291 Daehak Street, Urbana, IL) and contact information for Mr. Keichi Miyasaka.

**Customers:** There are three customers and each customer should be assigned to ‘CUSTOMER’ class ID

1. Customer ID: RCD              Name: Red Cart dealer

2. Customer ID: WTD Name: Wagon Toy dealer
3. Customer ID: MWW Name: Mario World Wagon

Ex: Red Cart dealer Customer maintenance and Customer account maintenance window.

After the required setup processes are completed and databases are constructed, students can now process the ‘Weekly Transaction’ through the following steps:

1. Activation of MPS from forecasting and activate firm manufacturing orders (MO)
2. Creation of manual MO, MO processing for FG
3. Inventory management – Any item shortages for components
4. POP to purchase parts and components for processing WIP MO
5. SOP for customers
6. Account payable to vendors and Account receivable from customers
7. Deposit / Payment [Bank transaction]

Students can process the following ‘Monthly Transaction’ at the end of the month:

1. Weekly transaction plus Payroll processing for FT and PT
2. Pay Loan [Principal and Interest] and utilities
3. Check and print monthly financial transaction statement and Monthly trial balance

At the end of the semester, students are required to process the ‘Year-end transaction’ to close out the plant:

1. Monthly transaction plus Close-out procedure
2. Reconcile financial data and Pay off loans
3. Check Accounts receivables / Accounts payables balance
4. Consolidate periods, ABC Analysis, Inventory clearance
5. Year-end closing process for the Payroll

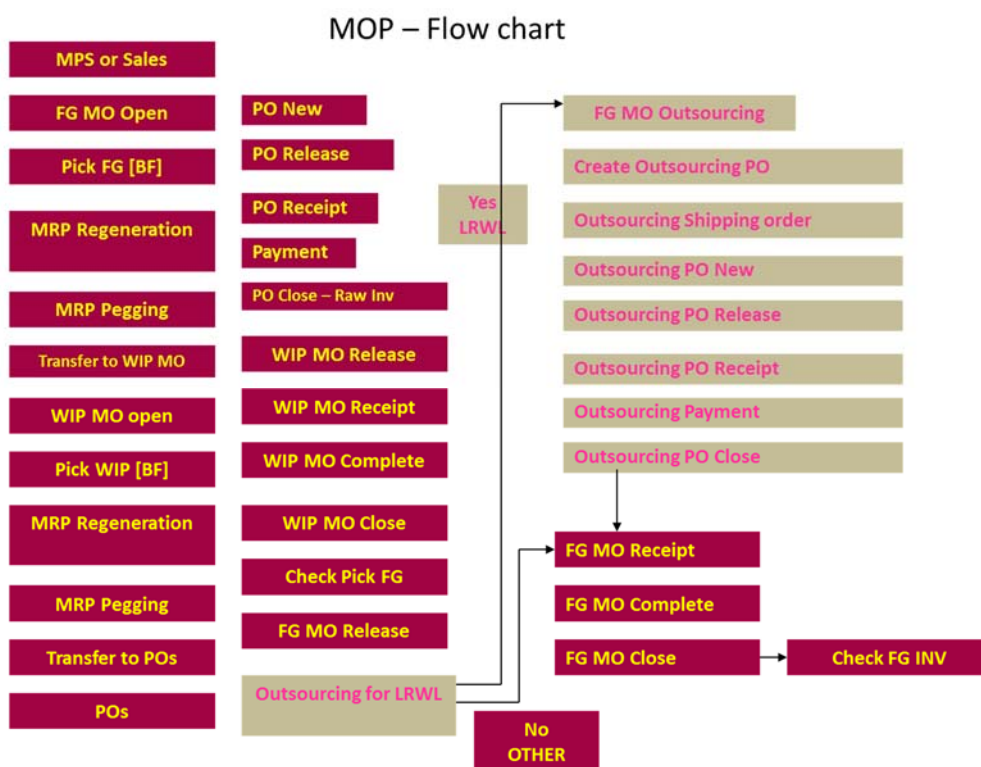
6. Payment of tax to IRS and W-2 form

**Example: Weekly Transaction Activities**

1. **Create and activate** the forecast for all three models of wagons.
2. **Create the MPS.**
3. **Activate the MPS for November 4** for all three Wagon models.
4. Complete the production of these manufacturing orders.
  1. *For LRWB or LRWD Model:* No outsourcing service is required for these models.
  2. *For LRWL Model:* Make sure outsourcing service is completed for this model.
3. **Check your inventory** to ensure enough inventories for following sales.
4. Process the following regular sales transactions for the ‘Red Cart’ customer.

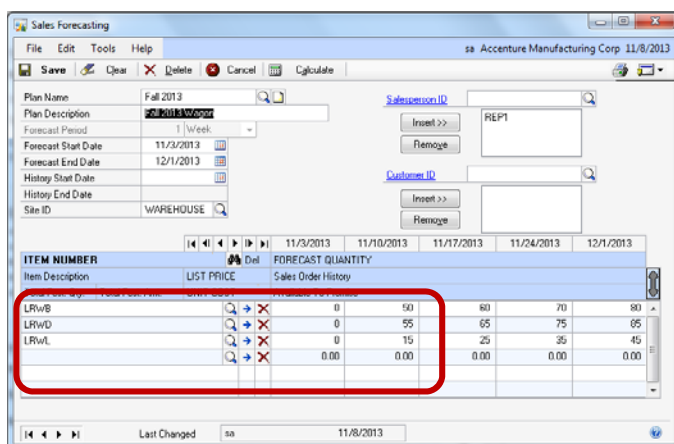
Red Cart			
Model	LRWB	LRWD	LRWL
Price Level	Retail	Clear	Retail
U of M	Each	Each	Each
Qty Ordered	40	30	10
Unit Price	\$128.79	\$147.65	\$257.84

5. During purchasing transactions process from four vendors to procure parts requirement, make sure to include *freight [10% of the ‘Subtotal’ amount]* for all purchases for all items.
6. Students can follow the MOP processing flow chart as shown below:



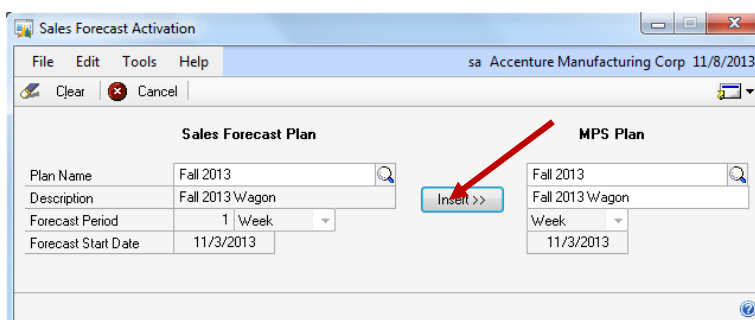
**Create the sales forecast:**

1. Go to Transactions >> Manufacturing >> Forecasting >> Sales Forecasting.
2. Open the Sales Forecasting window.
3. Enter a plan name and a brief description of the plan.
4. Enter the number of periods for the forecast.
5. Select a unit of time from the list.
6. Enter "Warehouse" for Issue to.
7. Select for the Sales Person ID and click 'Insert.'
8. In the first blank line in the scrolling window, select [LRWB, LRWD, and LRWL] by using the lookup icon as items in the forecast.
9. Enter the forecast quantities for each item.



**Activate a sales forecast:**

1. Go to Transactions >> Manufacturing >> Forecasting >> SF Activation.

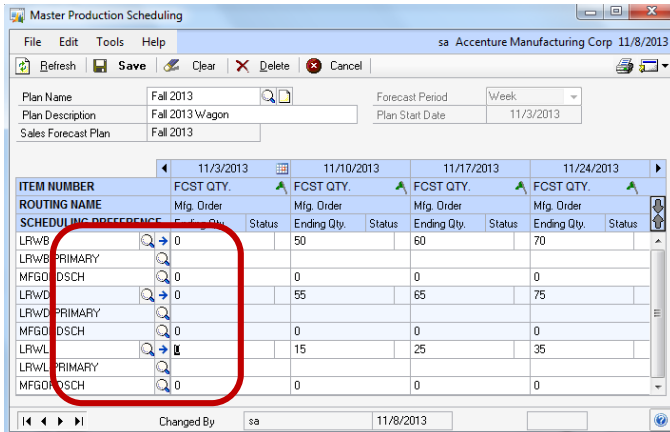


2. In 'Plan Name' select the sales forecast plan name by using lookup icon.
3. Click Insert to transfer the sales forecast plan to the MPS forecast plan.

**Create a master production scheduling plan:**

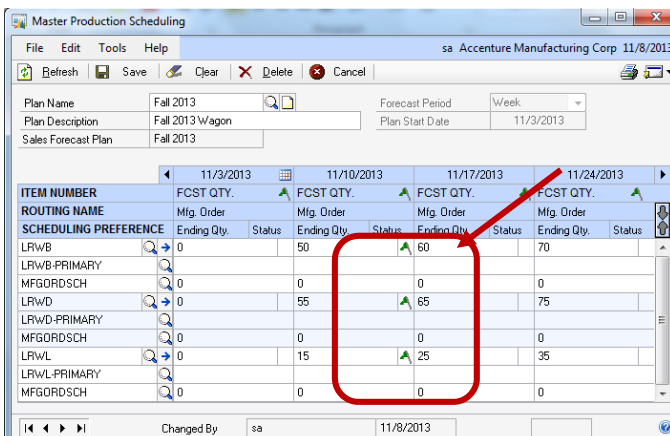
1. Go to Transactions >> Manufacturing >> Forecasting >> MPS.
2. Open the Master Production Scheduling window and select the forecast plan by using the lookup icon.
3. In the MPS, make sure you have all forecast items listed and all default routing and scheduling preferences are listed for each item.

4. Select sites for ‘Draw Inventory from site’ [Warehouse] and ‘Post finished goods to’ [Warehouse]. The default sites will come from the scheduling preference you selected.
5. Accept the default BOM Type for each item [MFG BOM].
6. When you’ve finished, choose save and close the master production scheduling window.

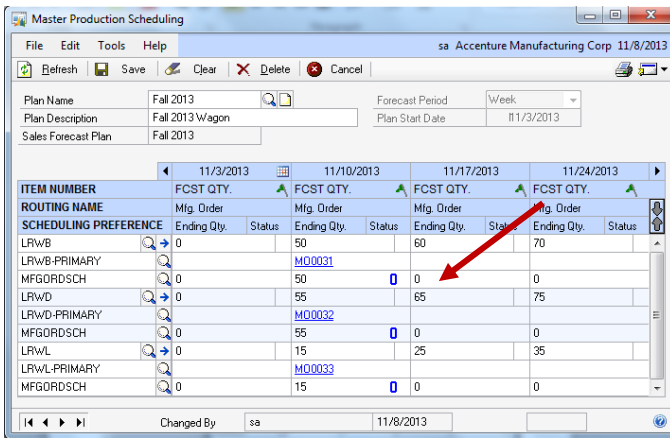


**Create Manufacturing Order from MPS:**

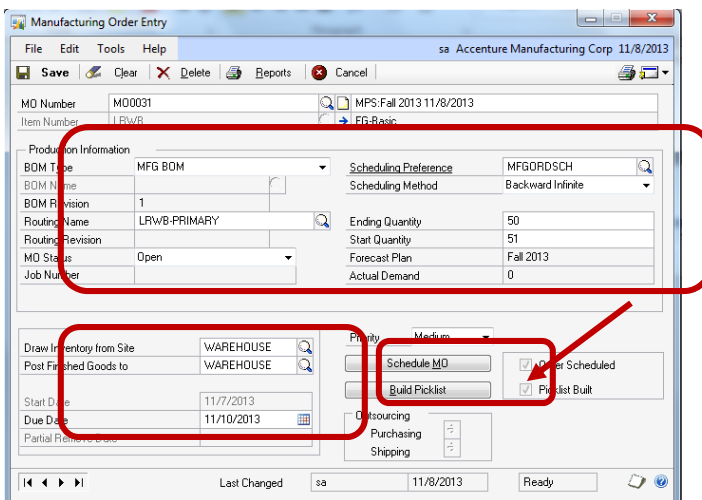
1. At the MPS, click the cell next to ‘FCST QTY.’
2. If a manufacturing order can be created for that plan bucket, a green flag appears as shown below:



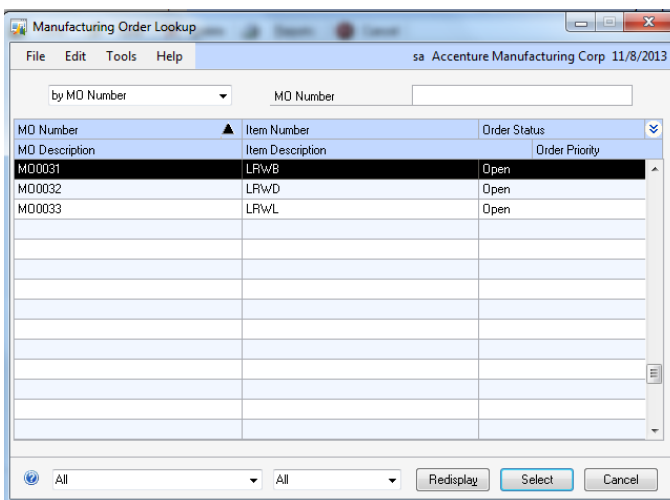
3. Click Save.
4. The MPS will convert the forecast to a MO (Manufacturing Order) for each flag and the MPS will be closed. Go back to the Master Production Scheduling window, select an MPS plan again.
5. Now, MOs [M031, M032, M033] will be listed for each item.
6. A blue O means that the manufacturing order has a status of ‘Open.’



Students can open Manufacturing Order directly from the MO entry window to schedule production and to build the pick list: Go to Transactions >> Manufacturing >> Manufacturing Orders >> Entry



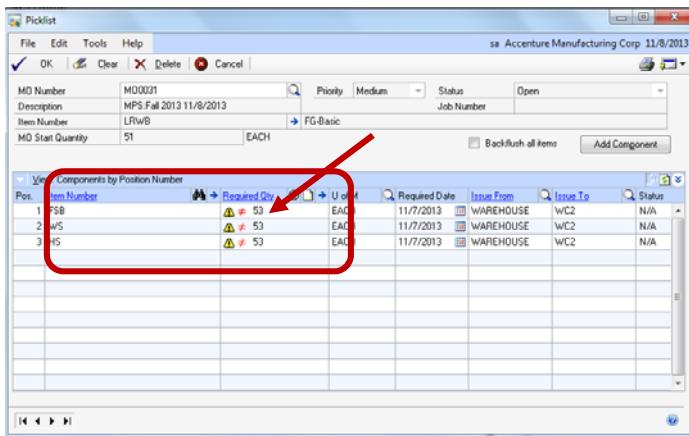
By using the lookup icon at the MO number, students can see three MOs are created with 'Open' status.



Once the MOs are created, students need to check parts availability / shortages, and backflushed for all items. To do that, students need to open the Picklist window.

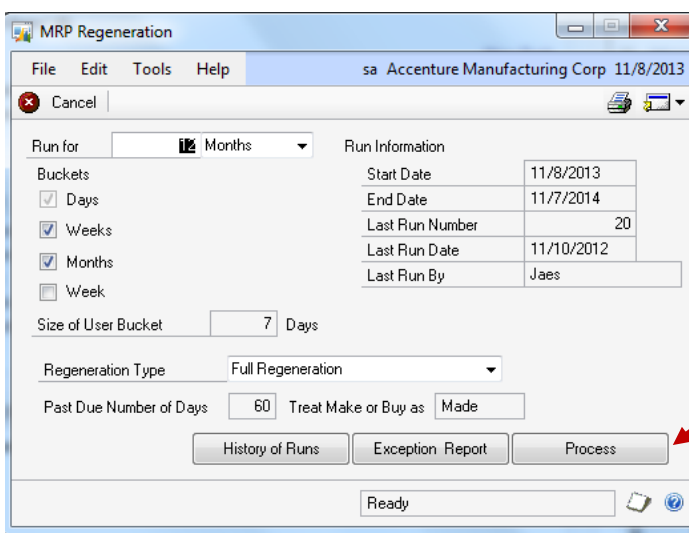
1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Picklist
2. Are there any problems in any raw material availability?

3. If you see a yellow triangular mark under the 'Required Qty' column, it means that you have shortage for that item so that item must be either produced or purchased.
- 4.



**To create MMO and MPO for three MOs, students need to regenerate the MRP. For this task, they will need to first set up MRP Regeneration:**

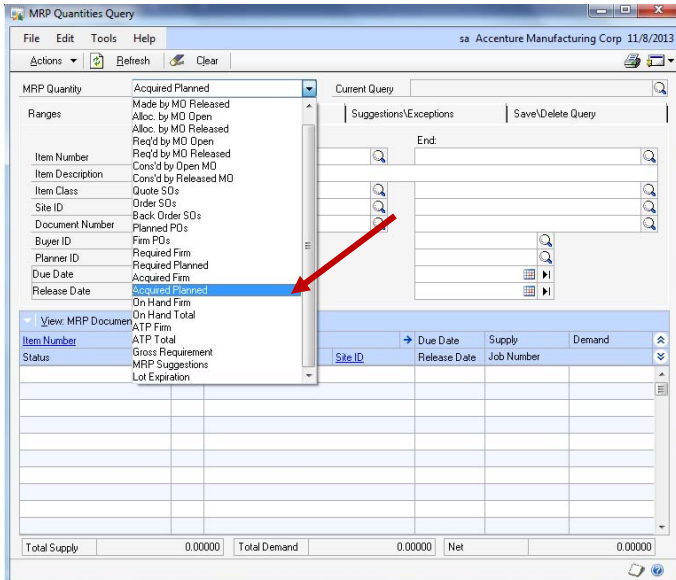
1. Go to Transactions >> Manufacturing >> MRP >> Regeneration.
2. Open the MRP Regeneration window.
3. In the Run for field, specify how far into the future MRP information should be calculated [12 months]
4. Choose buckets to determine how MRP information will be displayed.
5. Mark 'Days, Weeks, and Months'. The more options you mark will lengthen the time of the MRP process.
6. From the Regeneration Type list, select a type of MRP process [Full Regeneration].
7. Choose Process to begin the MRP regeneration process.



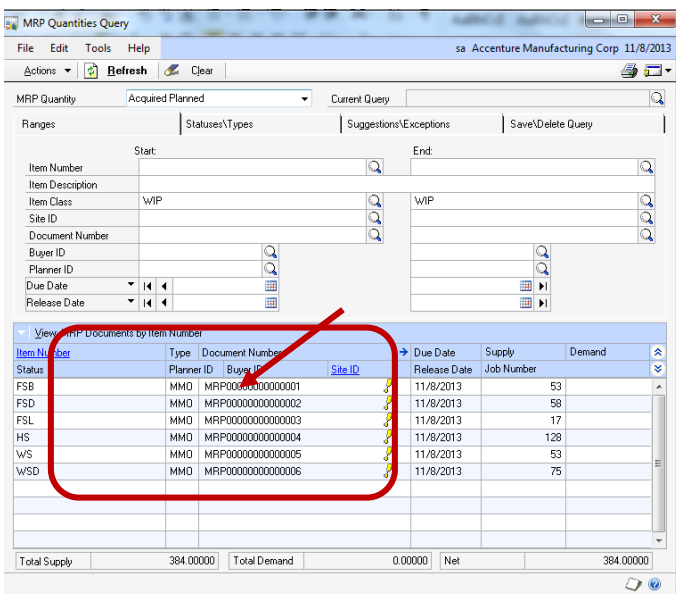
**Use the 'Pegging process' to determine required MMOs and MPOs:**

1. Go to Inquiry >> Manufacturing >> MRP >> Pegging inquiry.
2. In this process, students need to identify all required WIP components and all WIP MMOs [MRP Planned Manufacturing Order] in this pegging window.
3. Or, students also can check the MMOs by using MRP Quantities Query window.

4. Go to Inquiry >> Manufacturing >> MRP >> Quantities Query.
5. Choose [Acquired Planned] at the 'MRP Quantity' by using the drop down box.



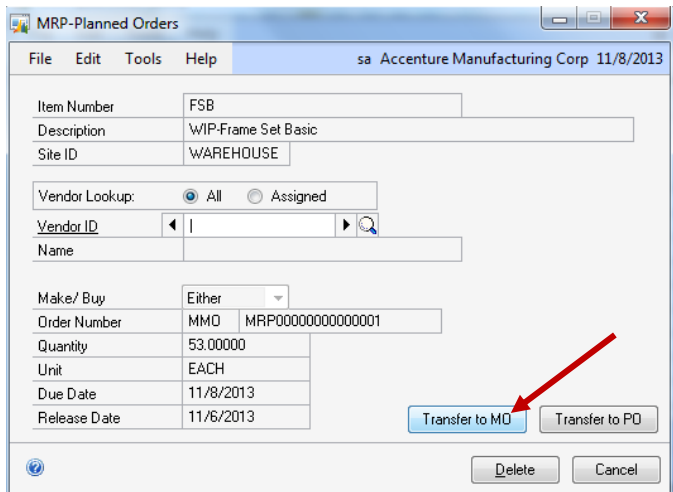
6. Click the Ranges tab and select the ranges you want to include in your query.
7. At the Item Class, select the WIP for Start and End. Click 'Refresh'. Then, all MMOs will be populated as shown below:



**If you click the one of the MMOs, the MRP planned orders window will open.**

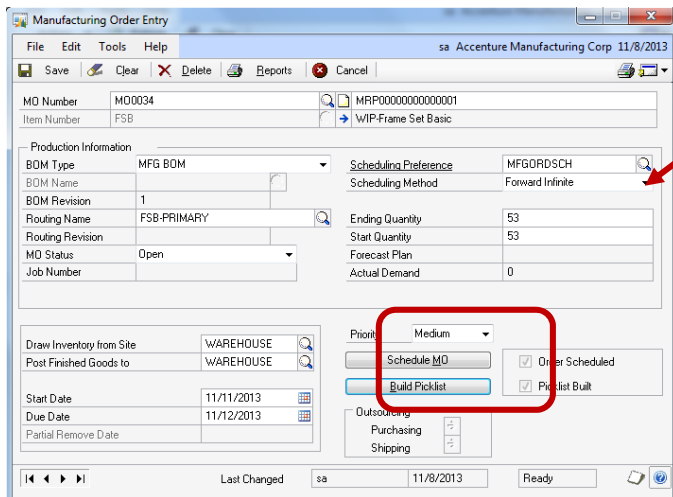
1. If you're working with an MRP-planned manufacturing order [MMO] from the WIP or FGOOD item class, click Transfer to MO button.
2. The Manufacturing Order Entry window will open.



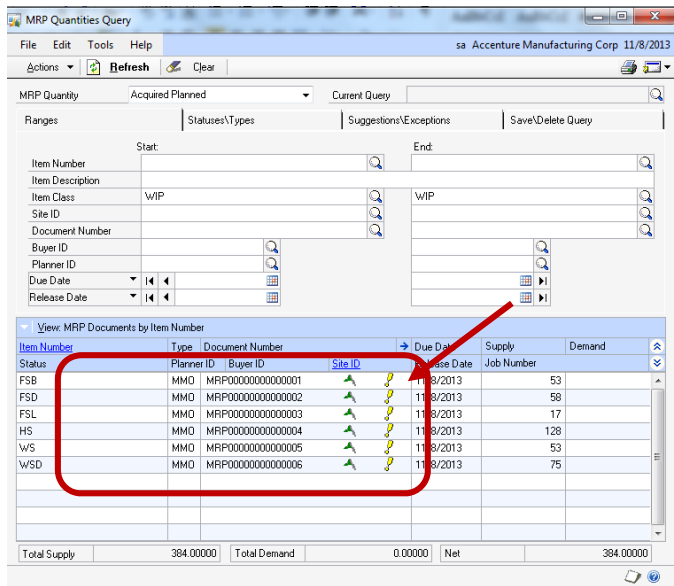


All Order information, including the MO description, quantity, and due date will be transferred to a manufacturing order. If it is needed, students can make changes to the order, schedule the order, or build a picklist before saving it.

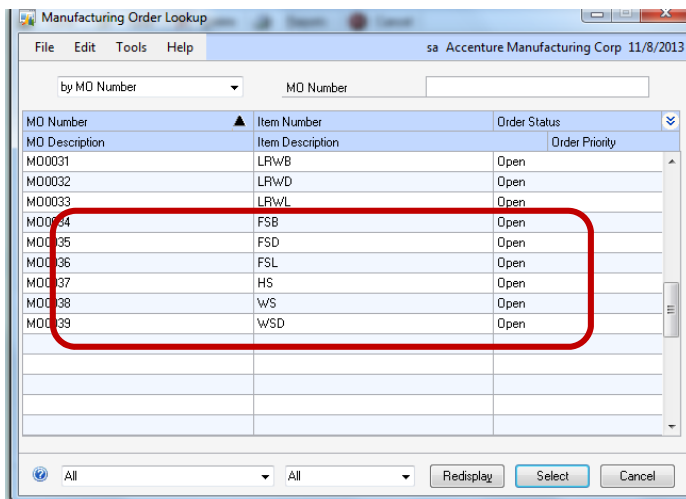
1. At the Manufacturing Order Entry window, click the "Schedule MO" button.
2. If the status of the manufacturing order is Open, the order will automatically be scheduled, and its picklist will be built.
3. Make sure a check mark has been marked for 'Order scheduled' and 'Picklist built.'
4. Save the order and close.
5. Repeat the above transfer process for all other WIP items with shortages in the pegging window.



Once transfer process for all MMOs are completed and created WIP MOs successfully, students will see a green flag for each MMO. Close the MRP Quantities Query window.

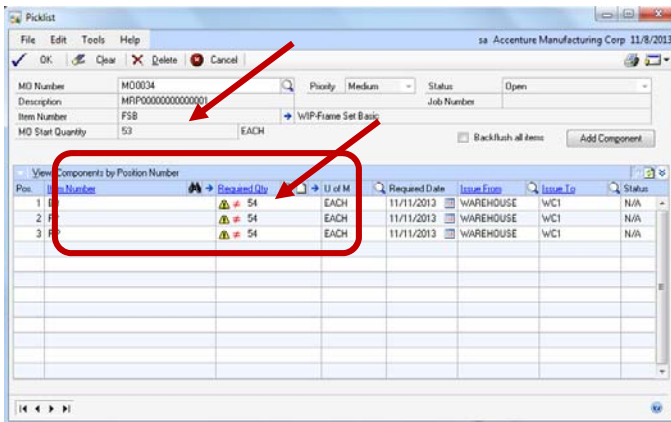


Students can open WIP Manufacturing Order directly from the MO entry window to check the MO number, the production schedule, and to build the pick list: Go to Transactions >> Manufacturing >> Manufacturing Orders >> Entry.



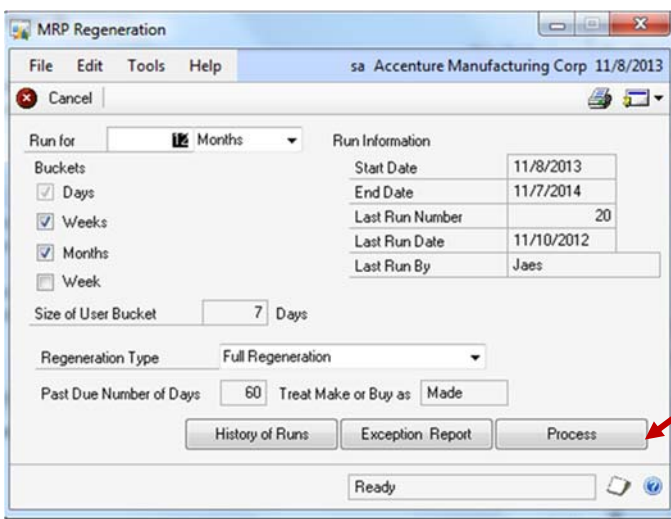
**Check the Picklist for WIP MO**

1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Picklist.
2. Now, students need to check part or components availability for all WIP MOs that they just transferred.
3. Make sure to select WIP item MO (FSB, FSL, FSD, HS, WS and WSD) one by one by using the lookup icon.
4. Open the Picklist window to check raw material shortages for WIP MOs.
5. If there are some shortages in several raw materials, you need to purchase these items before WIP MOs can be processed.
6. To purchase these shortages, you need to regenerate the MRP to plan purchases.



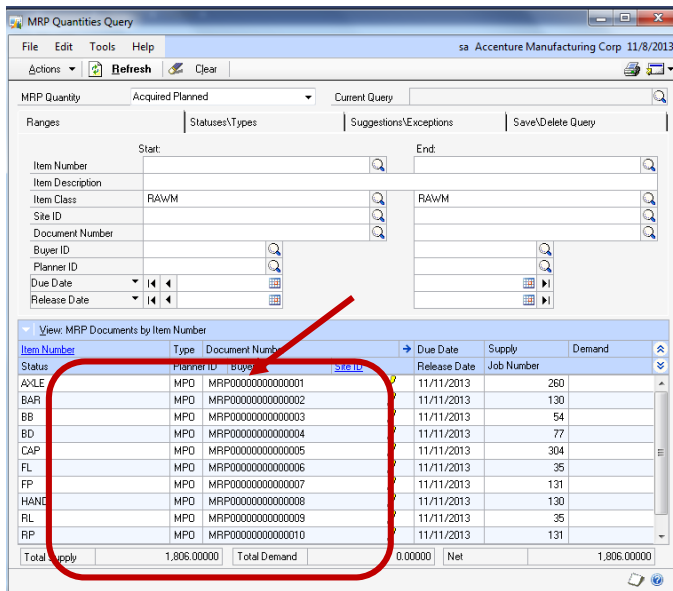
**To regenerate MRP to calculate the quantity/time of the components that students need to purchase to produce all WIP MOs:**

1. Go to Transactions >> Manufacturing >> MRP >> Regeneration.
2. Click 'Process'.
3. The regeneration process will create Planned Order Releases for all raw materials in the pegging window.
4. Close the MRP regeneration status window and MRP Regeneration window.

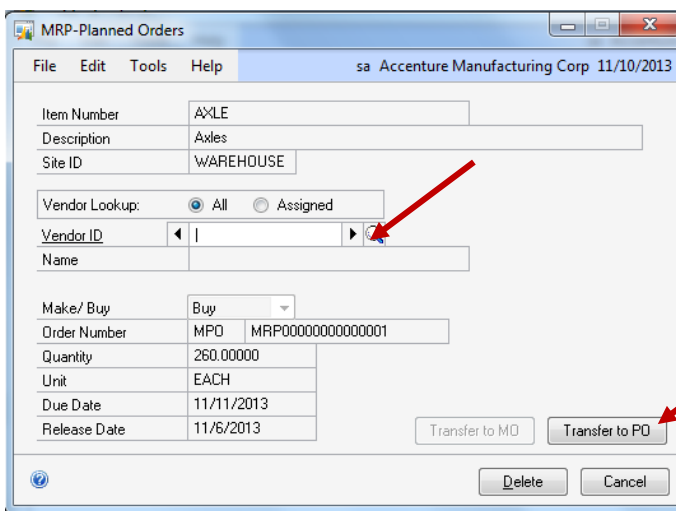


**To open the MRP Quantities Query window for MPOs:**

1. Go to Inquiry >> Manufacturing >> MRP >> Quantities Query.
2. Choose [Acquired Planned] at the 'MRP Quantity' by using the drop down box.
3. Click the Ranges tab and select the ranges you want to include in your query [Start: APR End: WSD].
4. Accept the default selections at the Statuses/Types tab.
5. Click the 'Refresh' button at the menu. The information displayed will be from the date of the last MRP regeneration.
6. All MPOs and MOPs will be displayed in the MRP Quantities Query window.
7. All MPOs for the following wagon components as shown below must be transferred to POs [Purchase Orders].

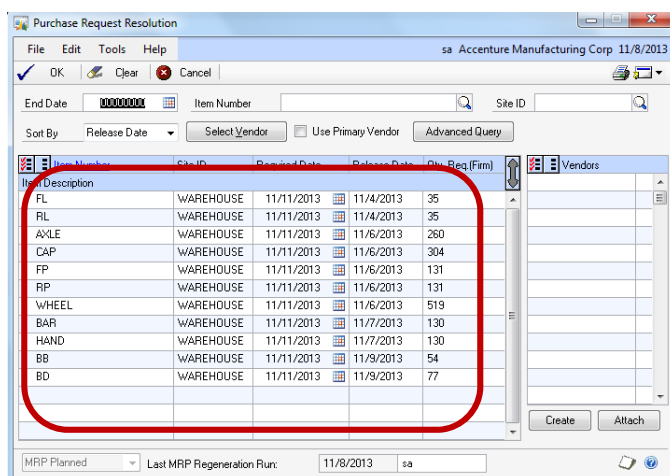


Students can transfer these MPOs (MRP Planned Purchase Order) to purchase order by clicking each item one by one.



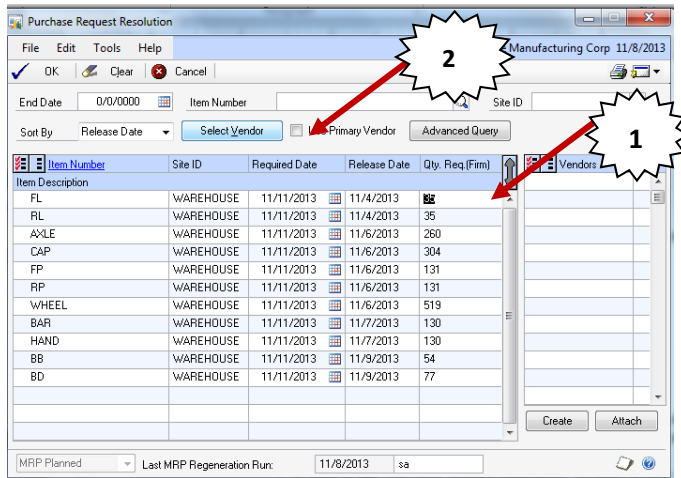
To avoid any tedious transferring activities, students can transfer all MPOs to POs per each vendor by using ‘Purchase Request Resolution’:

1. To create a purchase orders for a shortage - Go to Transaction >> Purchasing >> Request resolution.

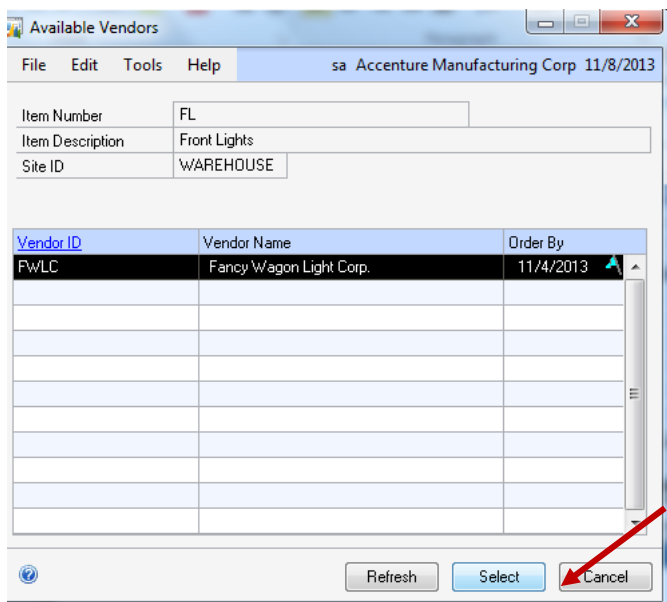


2. Once the “Purchase Request Resolution” window opens, click the cell under the ‘Qty. Req (Firm)’ column from the top.

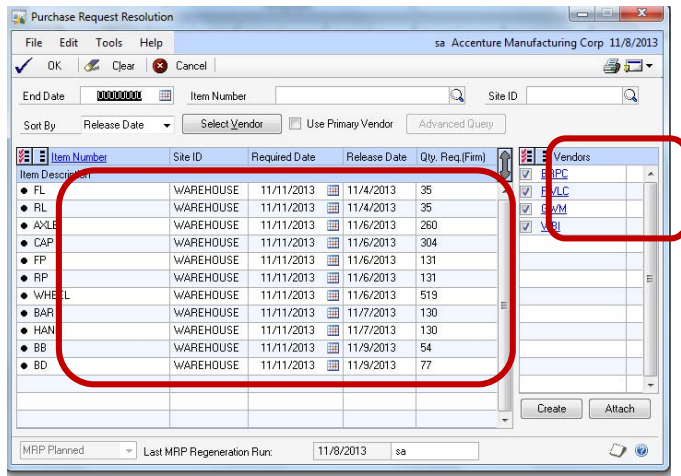
- Once the item is highlighted, click the ‘Select Vendor’ button.



- The ‘Available Vendor’ window will open.
- Click ‘Select.’
- Click ‘Yes’ to the popup of ‘This vendor’s typical lead time is too long to meet the deadline for arrival of this child part. Do you still want to use this vendor?’

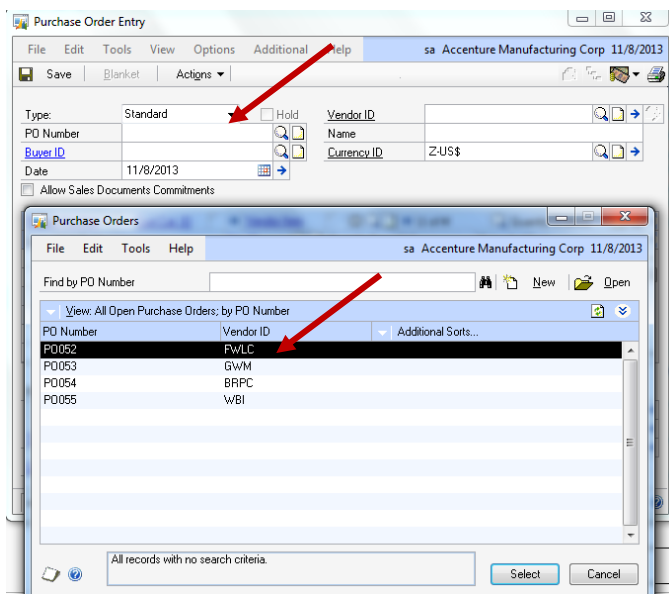


- Back to the “Purchase Request Resolution” window, ensure that the item number is marked with a black dot at the left side of the table and the primary vendor ID check box is marked at the right side of the table.
- Repeat the above steps to ensure all shortage items have black dots and all vendor ID check box are marked.
- Choose Create. All check marks of all vendor ID check box should have disappeared.
- Choose OK to save your work and to reserve the purchase order number. No purchase order will be created until you choose the OK button at the top left side of the window.

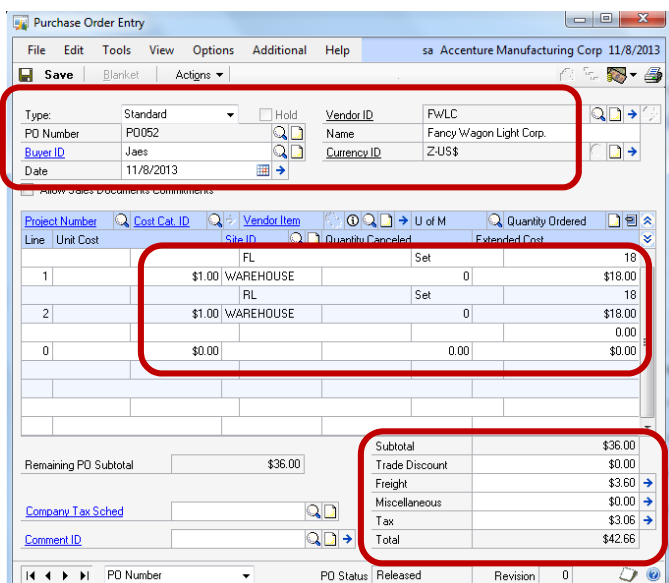


1. Go back to the PO entry window and enter the freight amount to each PO. Go to Transactions >> Purchasing >> Purchase Order Entry
2. By using the lookup icon at the 'PO number' field, locate PO numbers that you wish to release.
3. There should be 4 POs as shown below:

Display PO 52 ~ PO 55



### PO for Fancy Wagon Lights Corp



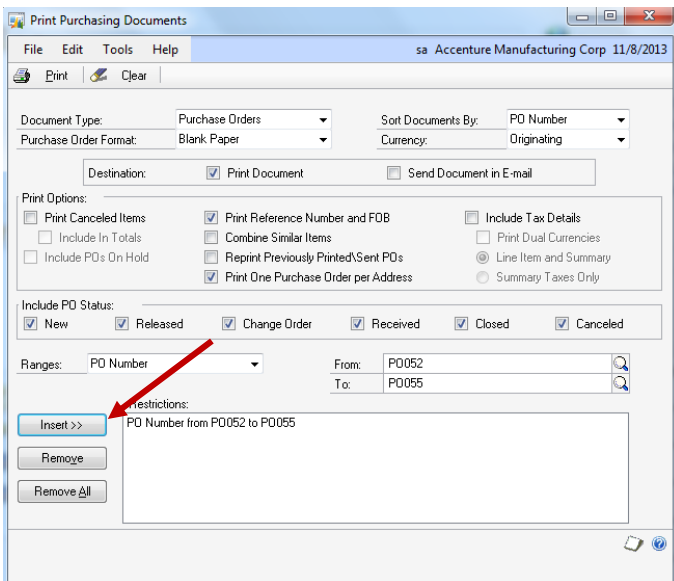
Each PO must be processed by using the flow chart shown below:

**POP – Flow chart**



**Instead of releasing each PO one by one, students can use ‘Mass release’ option to release all POs once.**

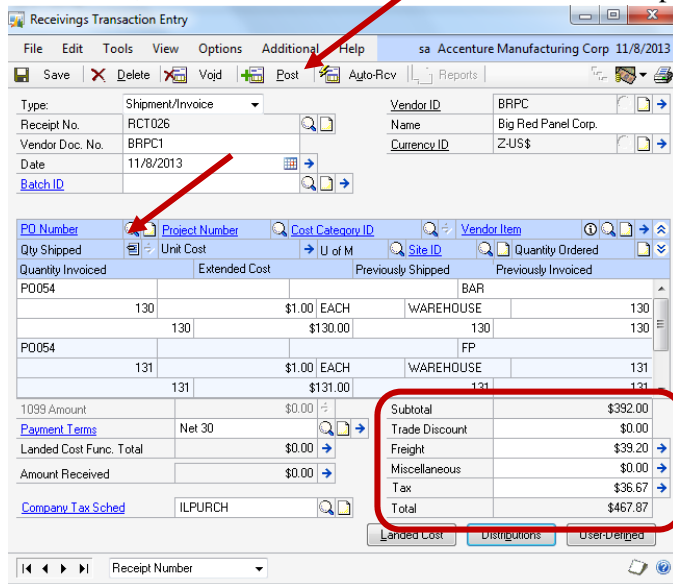
1. Go to Transactions >> Purchasing >> Print Purchase Documents.
2. Select the POs that need to be released by using ‘From’ and ‘To’ and click ‘Insert.’
3. Click ‘Print. All POs that were part of the release will print out the actual POs as shown below.



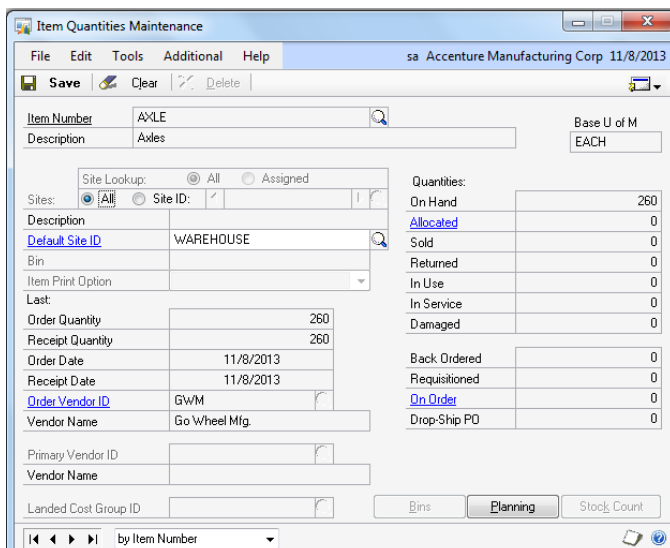
**PO Receive shipment and issue invoice:**

1. Go to Transactions >> Purchasing >> Receiving Transaction Entry.
2. Select ‘Shipment/Invoice’ as the document type for the transaction.
3. Click the ‘Receipt No’ field to generate default receipt number.
4. Enter a vendor document number. Enter a receipt date and select a vendor name by using the lookup icon.
5. Enter or select a currency ID [Z-US\$].
6. By using the lookup icon at the PO number[s], select the POs that you’re receiving a shipment/invoice for.

7. Click 'Post,' then wait until the window clears. Close. Repeat above steps for all other vendors.



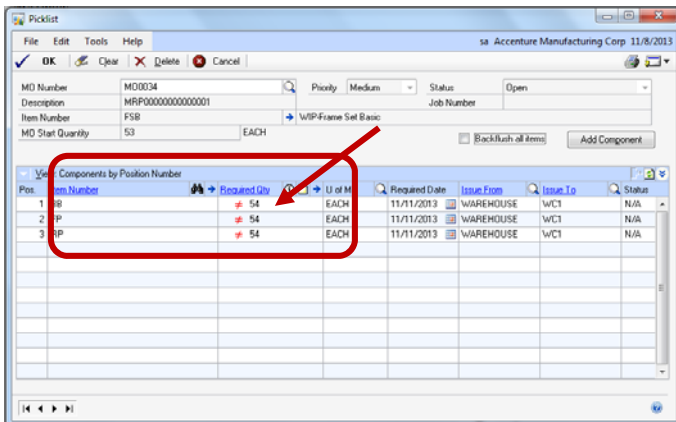
Once all POs completed receiving shipment and issuing invoice processes, students can check inventory at the warehouse to ensure there are no shortages in parts for WIP production: Go to Cards<<Inventory<<Quantities/Sites.



**Check the Picklist for WIP MO:**

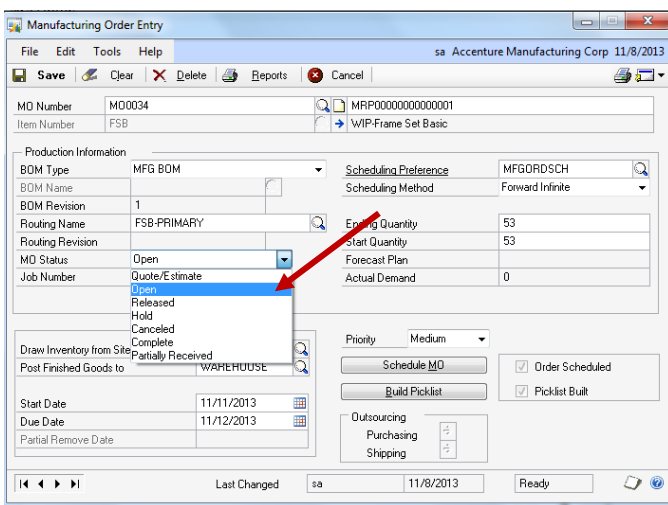
1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Picklist
2. Now, students need to check part or components availability for all WIP MOs that they just transferred.
3. Make sure to select WIP item MO (FSB, FSL, FSD, HS, WS and WSD) one by one by using the lookup icon.
4. Open the Picklist window to check the raw material shortages for WIP MOs.
5. Because there are no shortages for all WIP MOs, students now can release all WIP MOs.



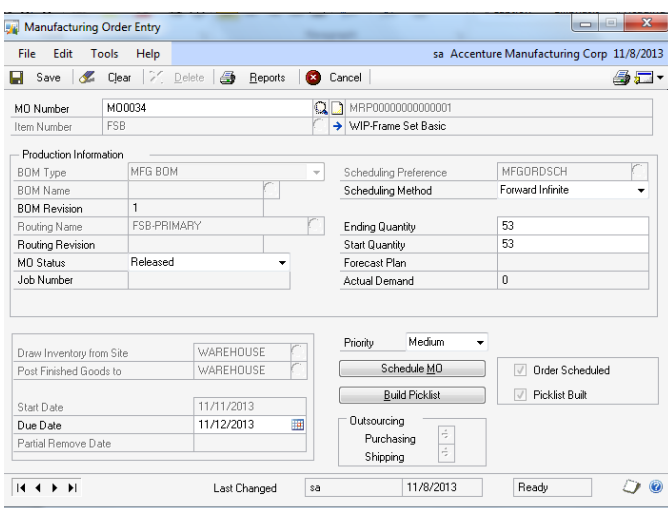


**To release all WIP MOs:**

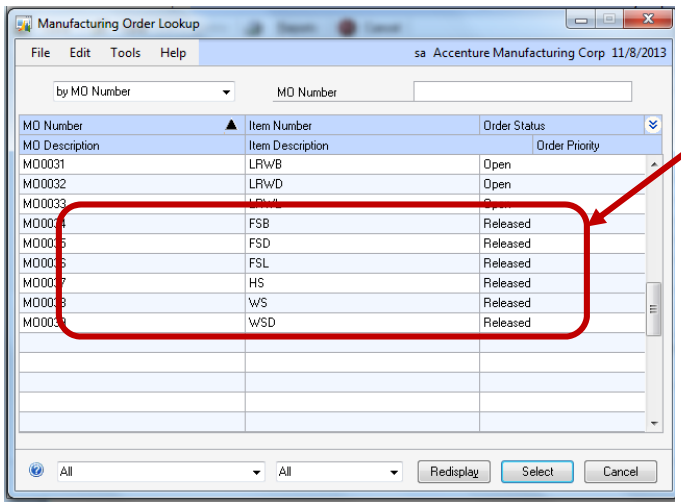
1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Entry.
2. Select the WIP MO one by one by using the lookup icon of the 'MO Number' field.
3. Make sure to select your item ONLY (FSB, FSL, FSD, HS, WS and WSD).
4. Change all WIP MO statuses from 'Open' to 'Released.'



5. Choose Save. Do this one WIP MO at a time.

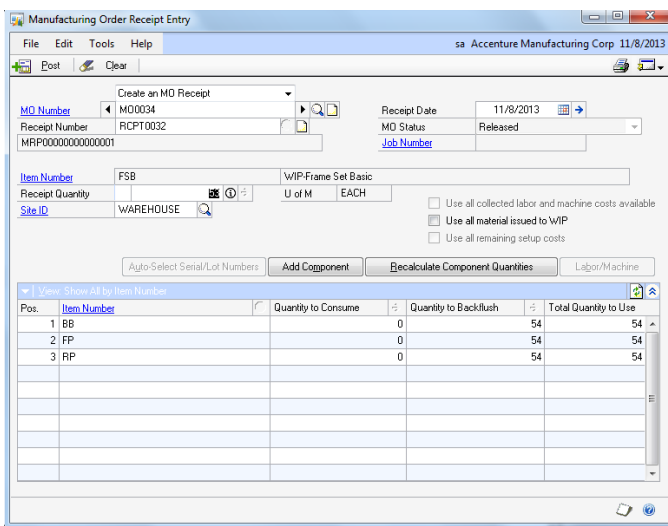


6. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Entry.
7. Click lookup icon at the MO Number field to ensure all WIP MOs are in 'Released' status.

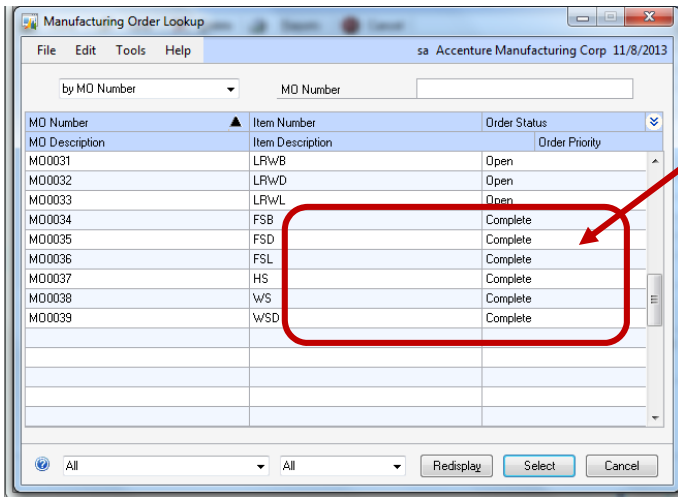


**To receive all WIP MOs:**

1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> MO Receipt Entry.
2. Select a WIP MO [not FGOOD MOs] with Released status in the 'MO Number field.'
3. Make sure to select each item one by one ONLY (FSB, FSL, FSD, HS, WS and WSD) by using the lookup icon.
4. Accept the default receipt date and default receipt number.
5. Accept the default receipt quantity for the finished item. You shouldn't have to change the receipt quantity.
6. Accept the default site [WAREHOUSE]. The site is the one to which the finished goods will be added.
7. Accept the default Quantity to Consume and the default Quantity to Backflush for each of the components.
8. Choose Post. Wait until all inventory transactions are completed.

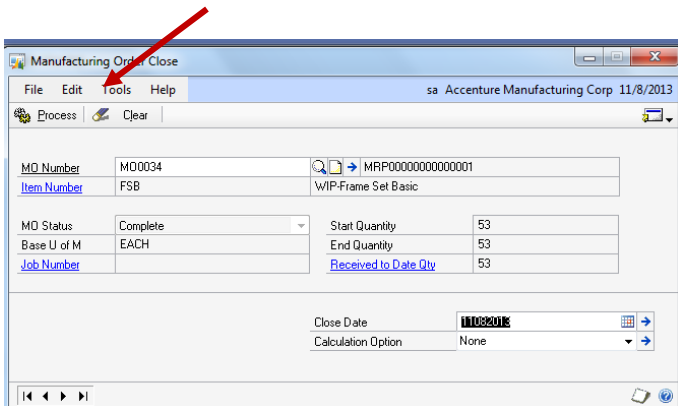


9. When processing is complete, all MOs order statuses will be changed from 'Released' to 'Complete' in Manufacturing Order lookup window.
10. Close the window.
11. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Entry.
12. Click lookup icon at the MO Number field to ensure all WIP MOs are in 'Complete' status.

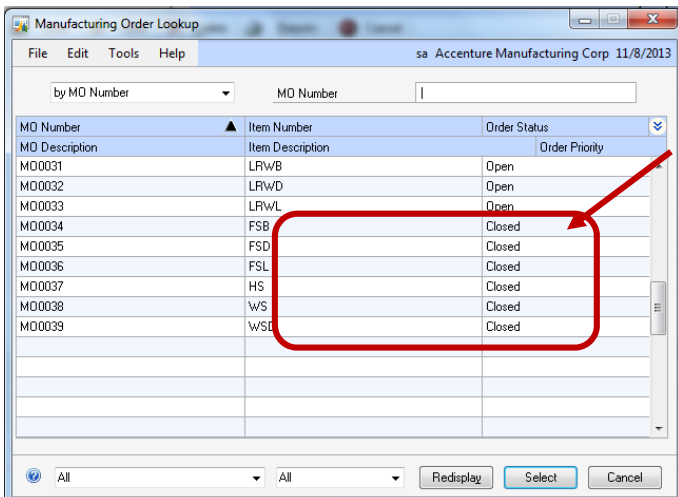


**To close all WIP MOs:**

1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> MO Close.
2. Select a WIP MO with 'Complete' status by using lookup icon at the MO number field.
3. Make sure to select your item ONLY (FSB, FSL, FSD, HS, WS and WSD) one by one by using the lookup icon.
4. If everything is ok, click Process. When you've finished, close the window.

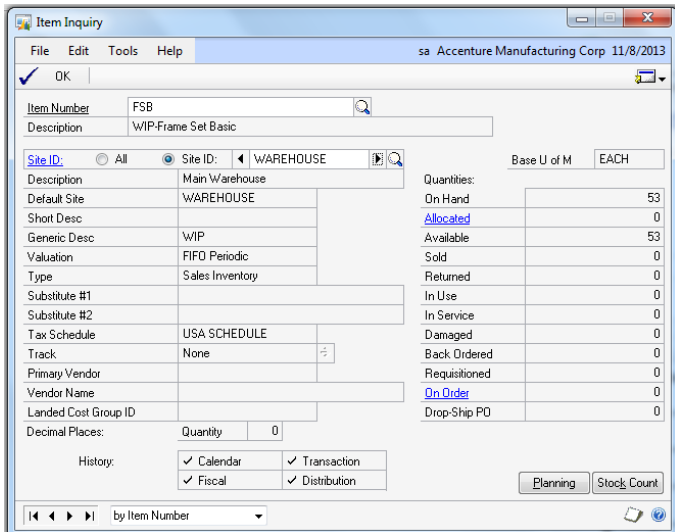


5. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Entry.
6. Click lookup icon at the MO Number field to ensure all WIP MOs are in 'Closed' status.



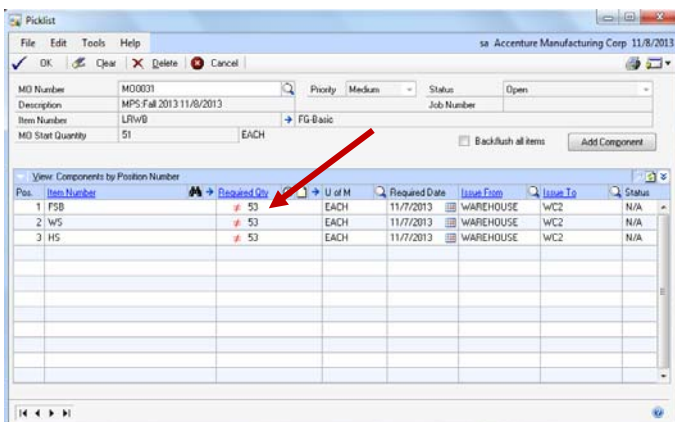
**Once all WIP MOs are completed with 'Closed' status, students can check inventory at the warehouse to ensure there are no shortages in parts for FGOOD production:**

Go to Cards<<Inventory<<Quantities/Sites.



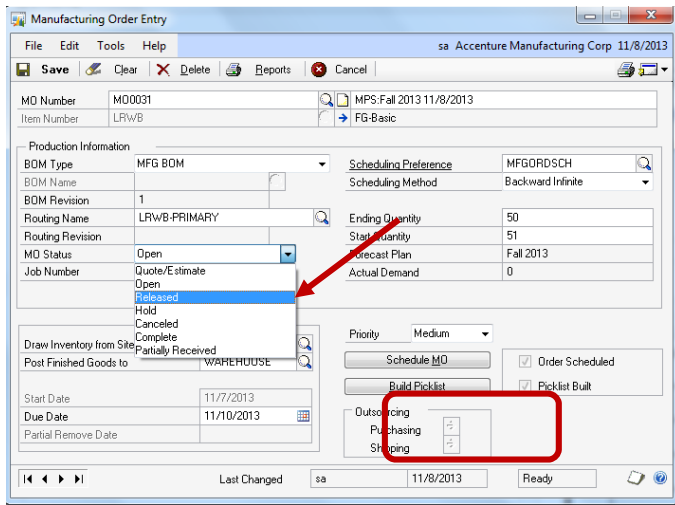
**Check Picklist for all FGOOD MOs:**

1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Picklist
2. Open Picklist to check the availability of all WIP components to complete FGOOD MOs.
3. If all FGOOD MOs have the required WIP items, you can close the picklist.
4. If you still have WIP item shortages for any of the FGOOD MO, students need to repeat pegging process to manufacture enough WIP items.



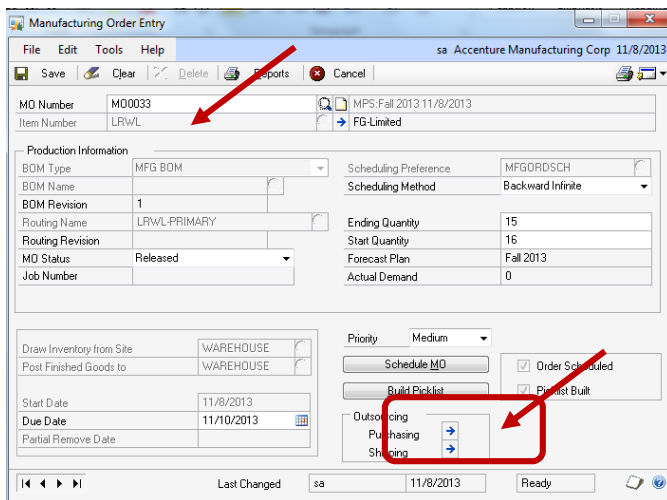
**To release FGOOD MOs:**

1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Entry.
2. Select the Wagon MO (LRWB, LRWD and LRWL) one by one by using the lookup icon of the 'MO Number' field.
3. Change the order status of all FGOOD MOs from 'Open' to 'Released.'
4. Save and do this one MO at a time.

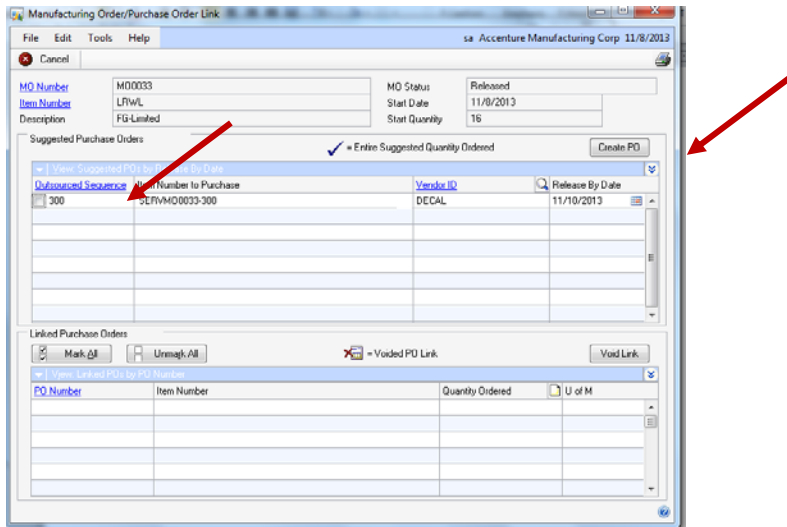


**If students are processing LRWL that requires an outsourcing process, the following outsourcing sequence should be followed:**

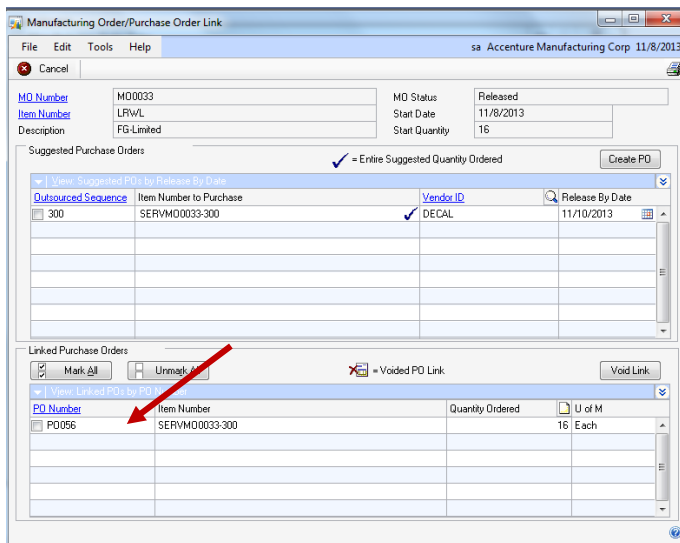
1. Create PO for outsourcing.
2. Go to Transactions >> Manufacturing >> Manufacturing Orders >> Entry.
3. Select the MOs for LRWL model by using lookup icon in 'MO Number.'
4. Make sure the order's MO status shows as 'Released.'
5. Click the blue arrow button next to Purchasing in the Outsourcing section.



6. Students will be in the 'Manufacturing Order / Purchase Order link' window.
7. Review the MO Number and Item Number for accuracy.



8. Mark the sequence 300 under the ‘Outsourced sequence’ column and click "Create PO" button on right hand side of the window.
9. Click “Continue” if you get a popup of: “The suggested PO has a release by date...”
10. The Purchase Order Entry window appears as shown below:

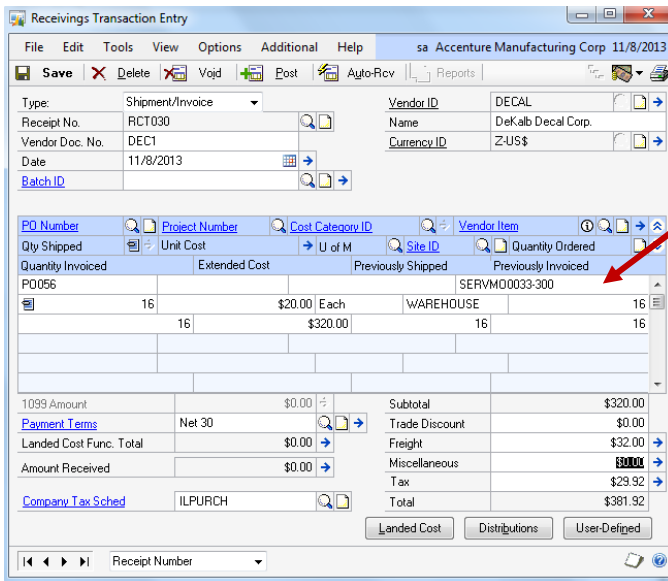


11. Number of the vendor item you’re purchasing. [SERV\*\*\*\*], U of M = Each
12. Accept the default item quantity and check the following data.
13. Default site = Warehouse      Shipping method = UPS ground      Site tax schedule ID = ILPURCH.
14. Choose Save and close the PO entry window. Back to the MO/PO link window.
15. Now you will see the PO number in the bottom half of the MO/PO link window.
16. Close the MO/PO link window. [DO NOT CLOSE the MO Entry window yet]
17. Print the PO and check the print out for accuracy.

**PO Receive outsourcing service and issue invoice:**

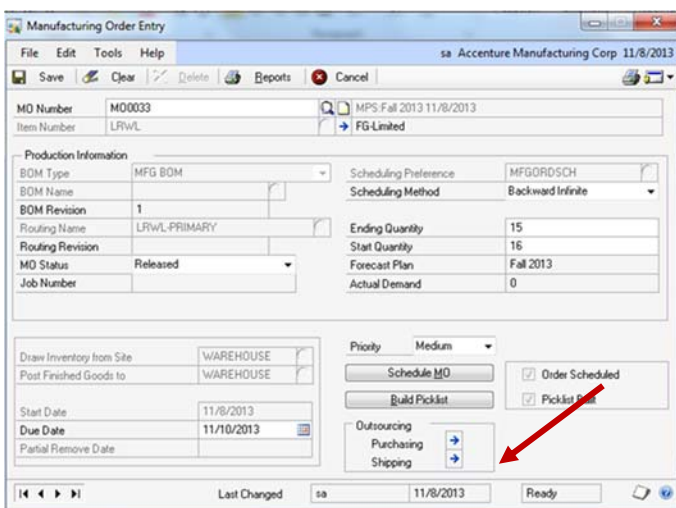
1. Go to Transactions >> Purchasing >> Receiving Transaction Entry.
2. Select "Shipment/Invoice" as the document type for the transaction.
3. Click the Receipt No field to generate default receipt number.

4. Enter a vendor document number. [Your name initial + any number] You cannot use same one twice.
5. Enter a receipt date. [Today's date] and select a vendor name by using the lookup icon.
6. Enter or select a currency ID. [Z-US\$].
7. By using the lookup icon at the PO number[s] [blue link at the first column, middle window], select the POs which you're receiving a shipment/invoice for. You can receive items from multiple purchase orders from the same vendor by entering or selecting a different purchase order number in a new row.
8. Click Post and then wait until window clears. Close.

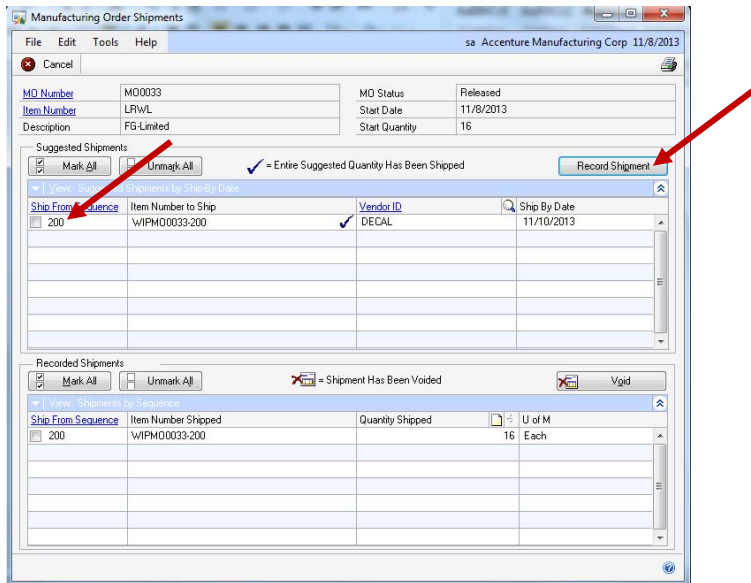


**Back to the MO of LRWL, students now need to process their Shipping order for outsourcing. This process allows a company to ship WIP to the outsourcing vendor for further processing.**

1. At the manufacturing order entry window for the LRWL model, click the blue arrow button next to Shipping in the Outsourcing section.



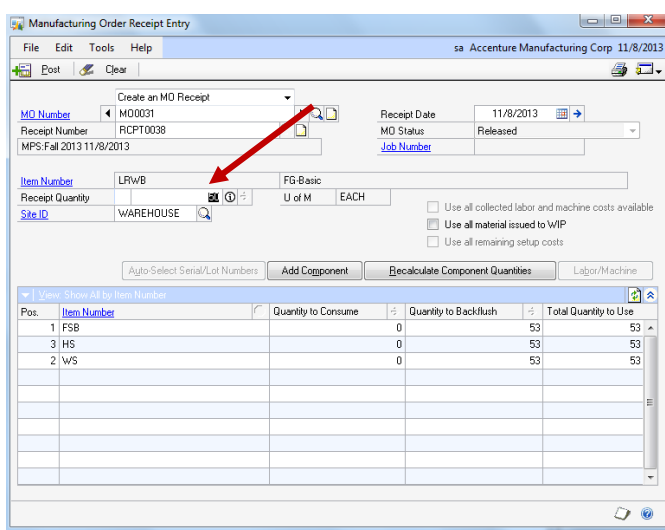
2. You will be in the Manufacturing order shipments window.
3. Mark the sequence 200 under the 'Shipment from sequence' column.
4. Click the "Record Shipment" button on right hand side of the window.
5. Close the window.



6. Print the manufacturing Shipping report and check the screen print out for accuracy.

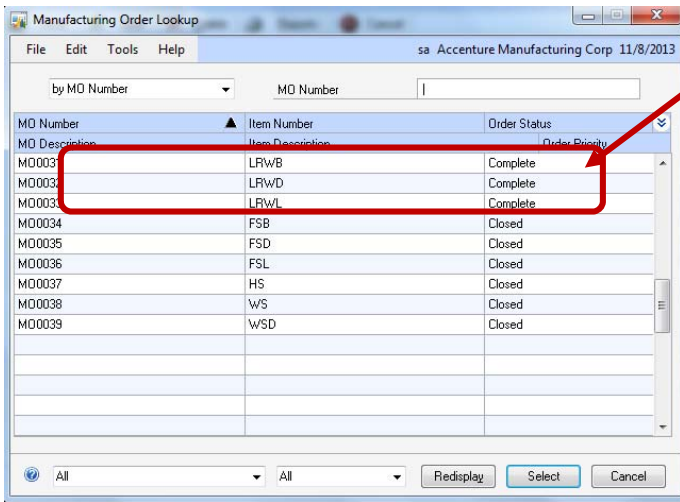
**FGOOD MO Receipt entry:**

1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> MO Receipt Entry.
2. Select a manufacturing order with Released status.
3. Make sure to select the MO that produces your items ONLY (LRWB and LRWD) by using the lookup icon. Do this one by one.
4. Accept the default receipt date and receipt quantity for the finished item.
5. Accept the default site [WAREHOUSE]. The site is the one to which the finished goods will be added.
6. Choose Post.



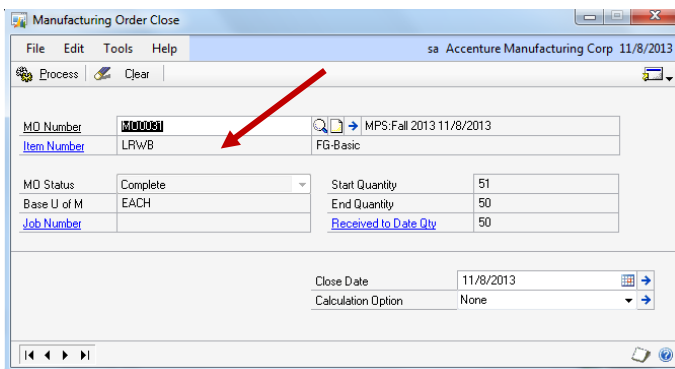
7. When processing is complete, all FGOOD MOs order statuses will be changed from “Released” to “Complete” in Manufacturing Order lookup window.
8. Close the window.



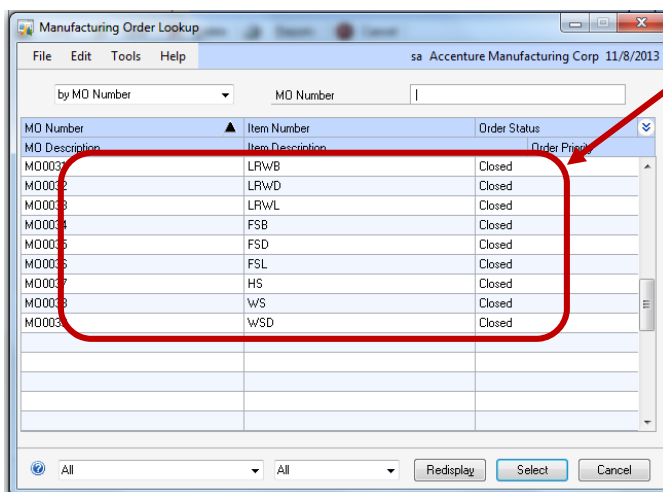


**To close FGOOD MO:**

1. Go to Transactions >> Manufacturing >> Manufacturing Orders >> MO Close.
2. Select a manufacturing order with 'Complete' status by using the lookup icon.
3. The manufacturing order you select can have no pending component transactions, and its status must be Released, Partially Received, or Complete.
4. If everything is ok, click Process. When you've finished, close the window.



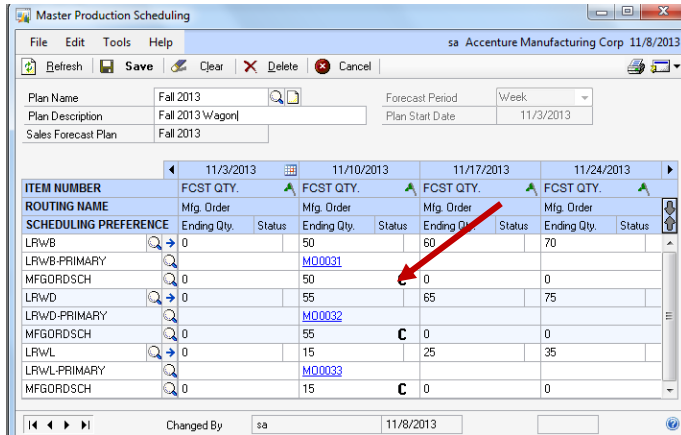
5. When closing processing is complete, all FGOOD MOs order statuses will be changed from "Complete" to "Closed" in Manufacturing Order lookup window.
6. Close the window.



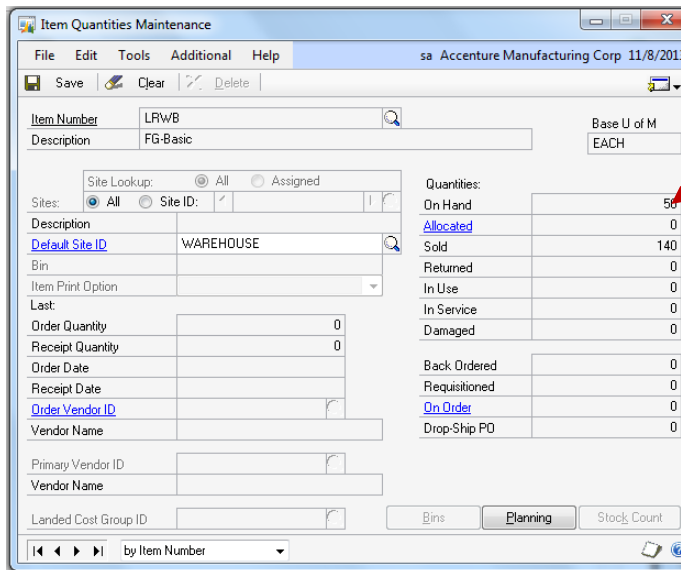
**Students can check the master production scheduling plan to ensure all three MOs are completed with a 'Closed' status.**

1. Go to Transactions >> Manufacturing >> Forecasting >> MPS.

2. Open the Master Production Scheduling window.



Students also can check availability of wagon inventory at the warehouse before committing any sales to customers: Go to Cards << Inventory << Quantities/Sites.

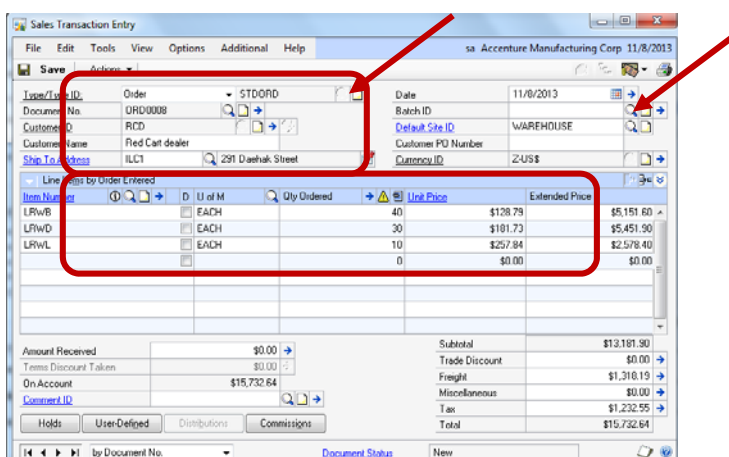


Sales Order Processing

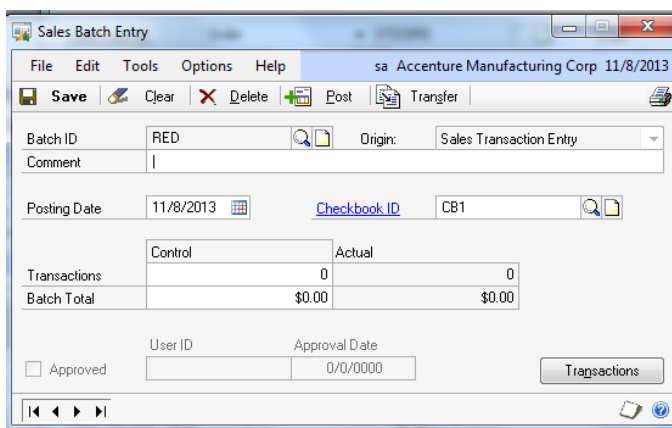
- Enter Sales Order
- Save it into SO Batch
- Allocate / Fulfill
- Transfer order to Invoice
- Collect \$ from customer
- Post SO batch
- Deposit into Bank
- Master Posting

**Sales Order based on ‘Retail’ price - Enter an order:**

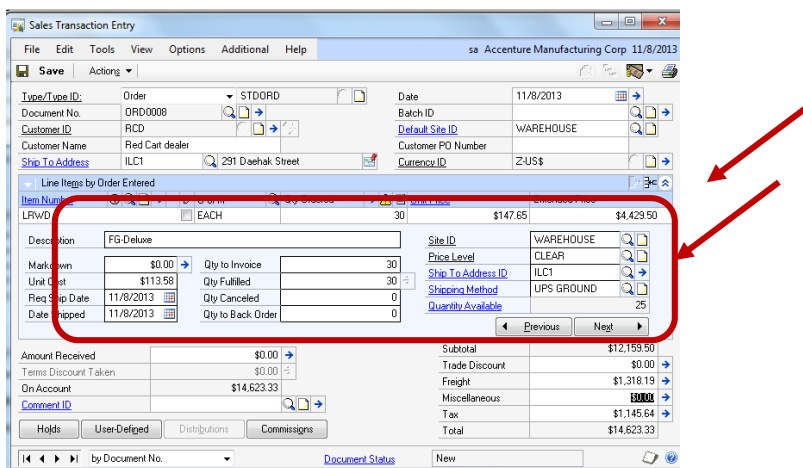
1. Go to Transactions >> Sales >> Sales Transaction Entry.
2. Open the Sales Transaction Entry window.
3. Select ‘OK’ to the popup window of ‘Sales order processing and invoicing modules are both installed.’
4. Select ‘Order’ for Type and accept the default value of [STDORD] for a Type ID.
5. Hit the Tab key to accept the default entry for document No.
6. Click the lookup icon to select the customers for the Customer ID field.
7. [Right column] Accept the default document date [today’s date].
8. Enter a batch ID and hit the tab key.



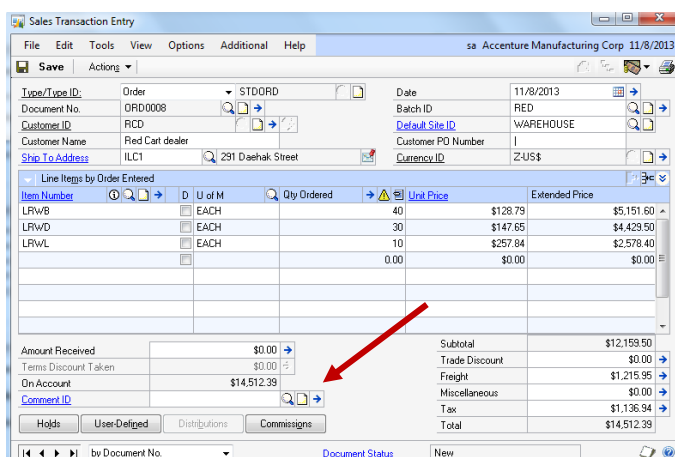
9. Click Add if the popup asks you "Do you want to add this batch?"
10. Enter the batch ID for the comment and Click save at the batch window.
11. Close the batch window.



12. Back to the Sales Transaction Entry window, enter or select a Default Site ID [WAREHOUSE] from which the items will be sold.
13. Enter or select a currency ID [Z-US\$].
14. Select the item [LRWB, LRWD or LRWL] one by one by using the lookup icon next to the 'Item Number'.
15. Click the blue arrow [pointing to the right] next to the item number [Blue link]. The Sales Item Detail Window is open.
16. Ensure the following default values have been selected for all sales items. Check this for each item one by one.
17. Select 'Warehouse' for 'Site ID'
18. Select the proper price level for the item: 'Retail,' 'Clear' or 'BOGO' for 'Price level.'
19. Select 'UPS Ground' for 'Shipping method.'
20. Select 'ILSALES' for Item 'Tax Schedule ID.'
21. Select 'Taxable' for 'Item tax option.'
22. Select 'USA Schedule' for 'Item Tax Schedule ID.'
23. Save and close the sales item detail window.

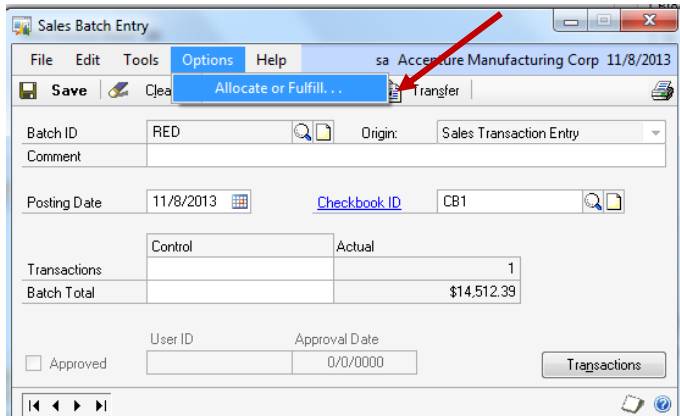


24. Back to the Sales Transaction window, select the unit of measure [Each or Set] by using the lookup icon.
25. Type the Qty Ordered and hit the tab key. Save and close

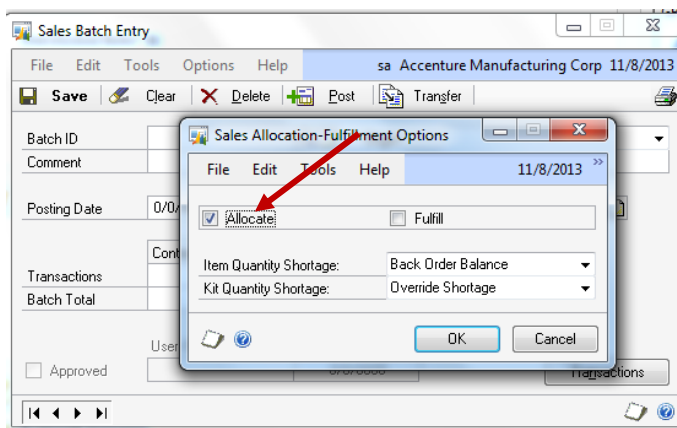


**To allocate/fulfill items:**

1. Go to Transactions >> Sales >> Sales Batches.
2. Open the Sales Batch Entry window and select a batch ID.
3. Click (Options >> Allocate or Fulfill) at the menu to open the Sales Allocation-Fulfillment Options window.

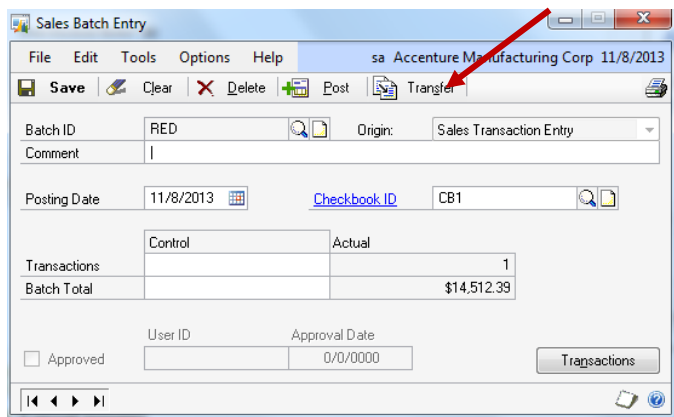


4. Mark Allocate.
5. Select a 'Back Order Balance' for the shortage option for 'items' and accept the default quantity shortage option for 'kits'.
6. Choose OK to close the Sales Allocation-Fulfillment Options window to complete the allocation.

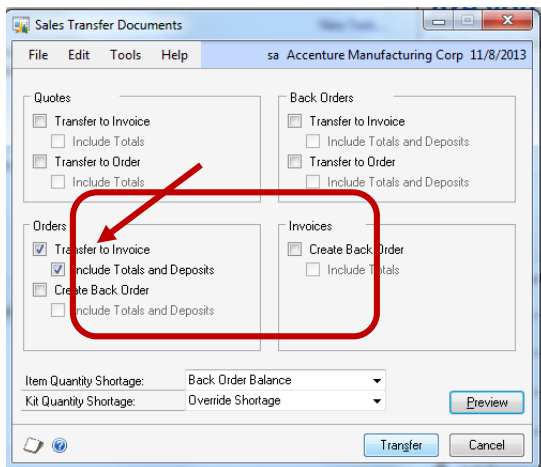


**To transfer order to invoice:**

1. Go to Transactions >> Sales >> Sales Batches. Select a batch ID again and click 'transfer' at the menu.

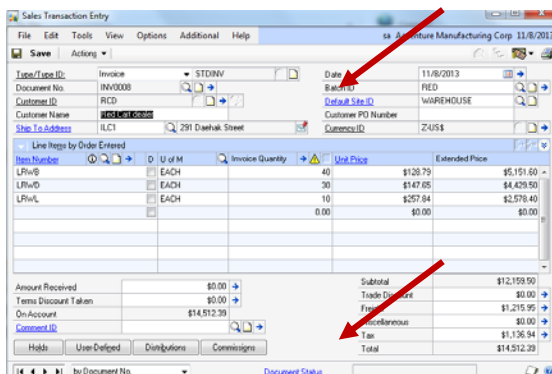


2. When the Sales transfer document window appears, mark the ‘Transfer to Invoice’ box under the ‘Orders’ section.
3. Make sure to mark “Include totals and deposits”. Otherwise, the deposit and freight amount will not be transferred.
4. Click the ‘Transfer’ button.
5. Use the screen output to see if there are no errors during the transfer process.
6. You should have a message of ‘1 document transferred successfully.’
7. Close the batch entry window.



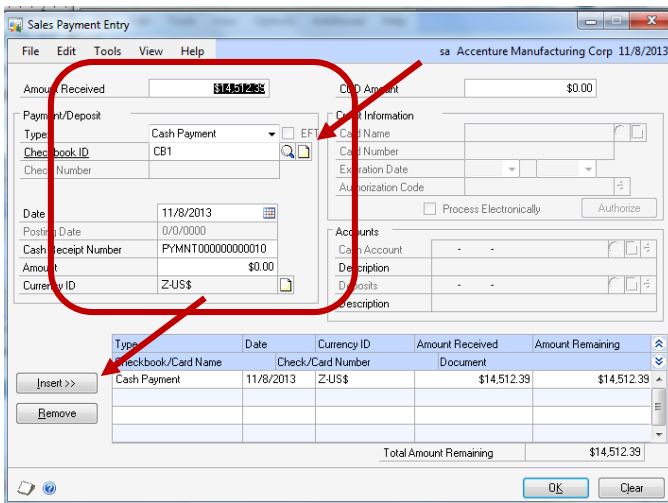
**Collect money from customer:**

1. Go to Transactions >> Sales >> Sales Transaction Entry.
2. Open the Sales Transaction Entry window.
3. OK to popup of ‘Sales order processing and Invoicing modules are both installed.’
4. Select ‘Invoice’ for Type and accept the default value of [STDINV] for a Type ID.
5. Click the lookup icon to see the list of documents on 'Document No' field.
6. Select the Invoice that you just transferred by using the lookup icon at the Document No.
7. Click the Amount Received expansion button [Blue Arrow] at the bottom section to open the Sales Payment Entry window.

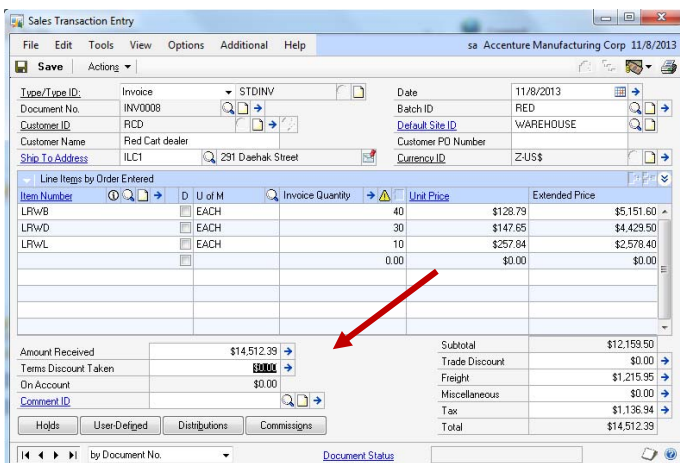


8. Enter the amount in the Amount Received field [Same as ‘Total’ amount in sales transaction entry window].
9. Select a payment type [Cash Payment] and hit tab key.
10. Choose Insert to add the payment or deposit to the list at the bottom of the window.

- Choose OK to save your entries and close the window.

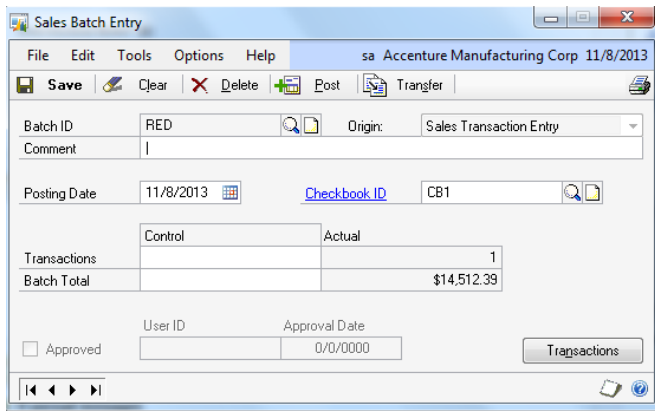


- Back to the Sales transaction Entry window, click the distribution button to check account entries.
- Click 'Commission' button to make sure 'REP1' has been assigned as a Sales Person.
- 

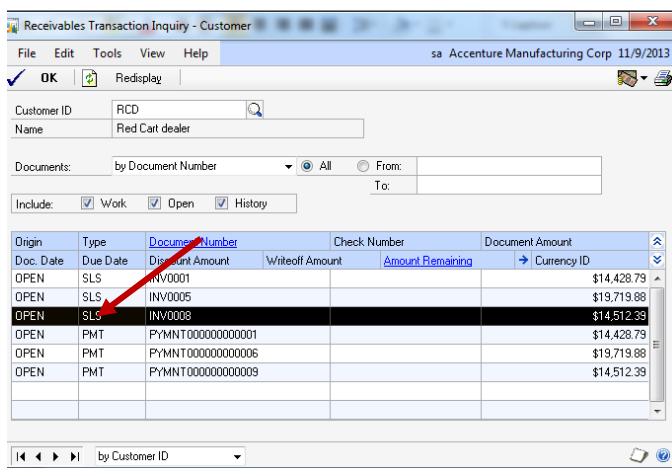


**To post to the journal:**

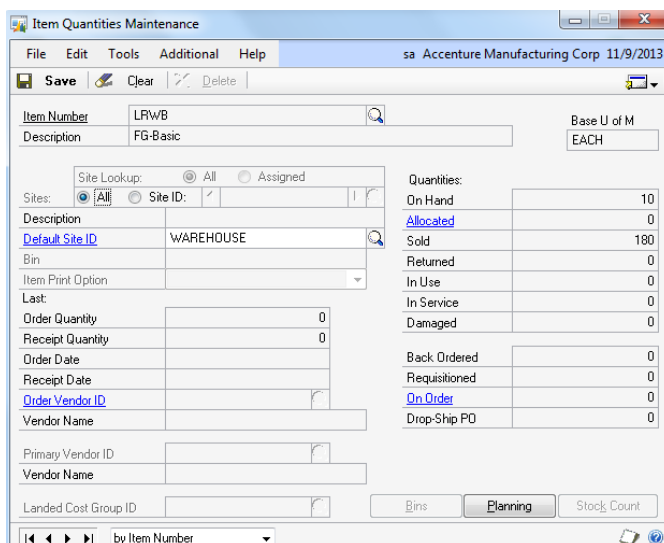
- Go to Transactions >> Sales >> Sales Batches.
- Open the Sales Batch Entry window.
- Select a batch ID for the invoice by using the lookup icon.
- Click POST and wait a few seconds. Print all print popups.
- Click the lookup icon of the 'Batch ID' again to ensure the sales batch has been posted successfully (The sales batch name should be disappeared from the batched list).



Check the sales record: Go to Inquiry<<Sales<<Transaction by customer:



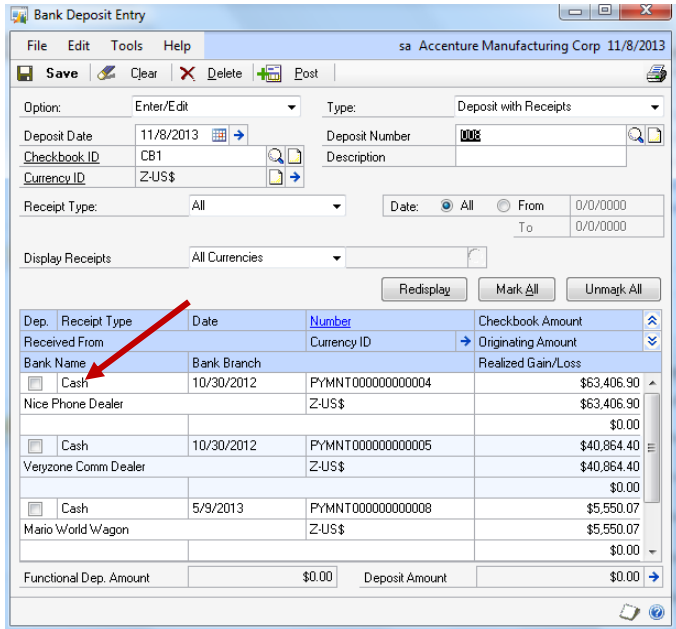
Or, Go to Cards<<Inventory<<Quantities/Sites. Select the item [LRWB, LRWD or LRWL] that you just sold. You may check the inventory level to ensure the sales quantity is recorded under the 'Sold'.



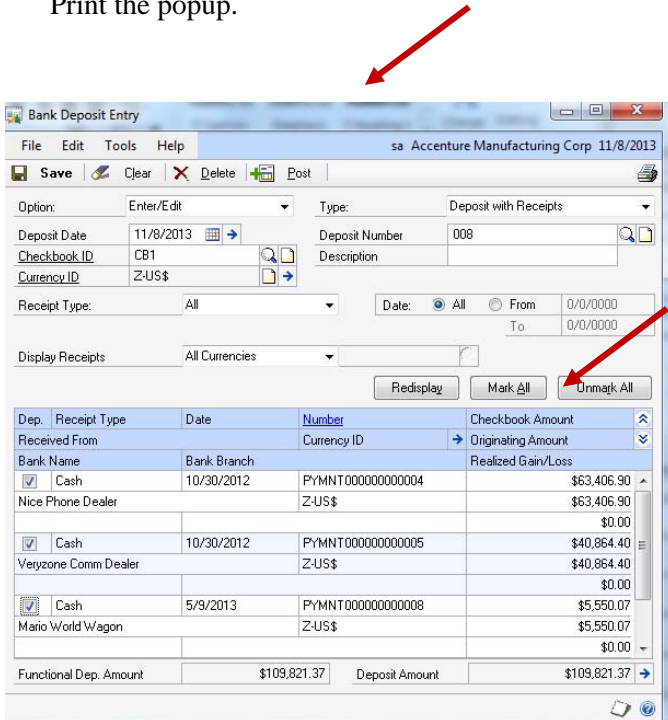
Deposit sales amounts to checking account:

1. Go to Transactions << Financial << Bank Deposit
2. Open the Bank deposit window.
3. Select CB1 for Checkbook ID by using the lookup icon
4. Make sure the default deposit Number has been issued
5. Make sure all sales amounts have been recorded.

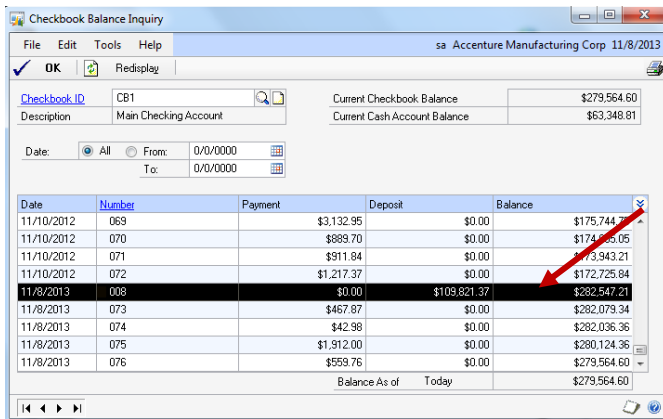




6. Put the check mark at the square box under the 'Dep.' (The most left column of the lower pane of the window).
7. Click POST [click only once].
8. Print the popup.

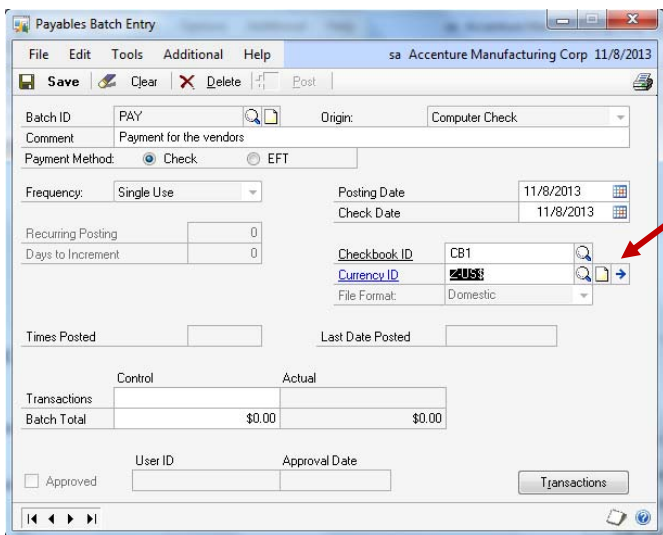


9. Go to Inquiry<<Financial<<Checkbook Balance
10. Select CB1 for Checkbook ID by using the lookup icon.
11. The total amount should appear under the deposit column.
- 12.

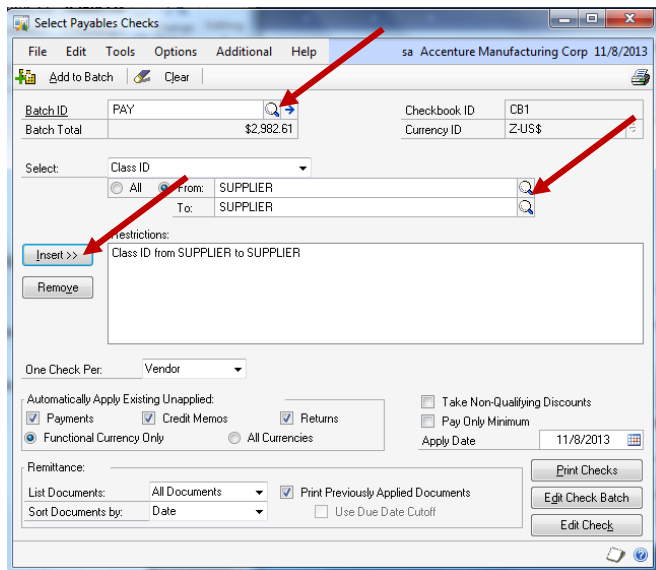
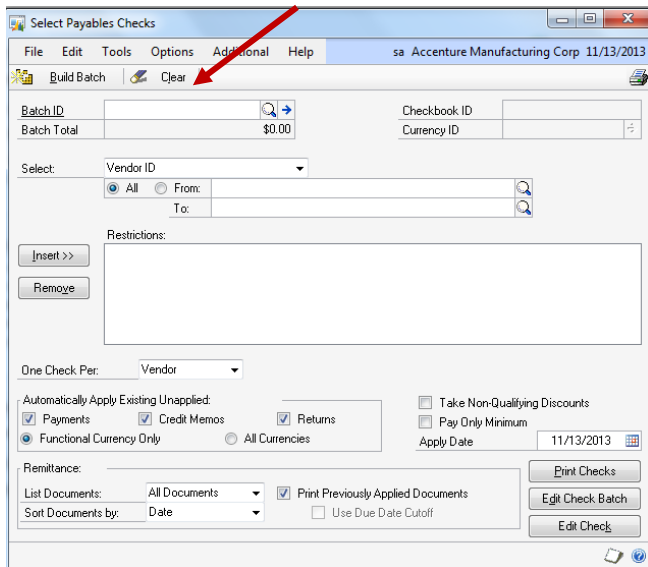


**Pay vendors:**

1. Go to Transactions >> Purchasing >> Select checks
2. Open the Select Payable Checks window.
3. Enter the batch ID and hit tab.
4. Answer yes for popup of ‘Do you want to add this batch?’
5. Enter ‘Payment for Part Purchase’ in comment
6. Select “CB1” for Checkbook ID. Save the batch and close.

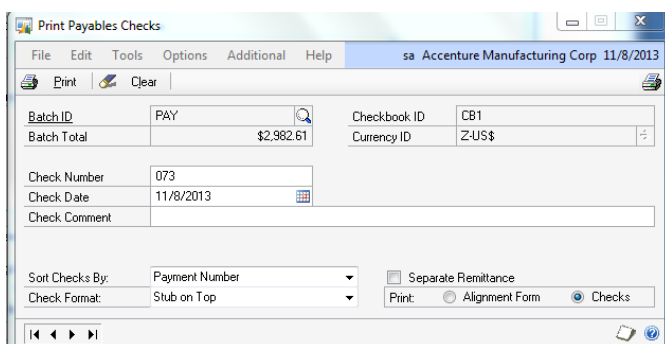


7. Back to the Select Payable Checks window, select the ‘Class ID’ for the ‘Select Vendor By’ filed by using drop-down arrow.
8. Check ‘From’ radio button. The lookup icon for the ‘From’ field becomes active.
9. Select ‘Supplier’ by using the lookup icon for the ‘From’ field.
10. Select ‘Supplier’ by using the lookup icon for the ‘To’ field.
11. Click “Build Batch” at the upper left corner of the window
12. WAIT until “Batch total” is calculated.
13. Once the total amount is available, click “print checks” at the bottom right corner.



14. The Print Payable Checks window opens.

15. Click "Print". Select the 'screen' output.



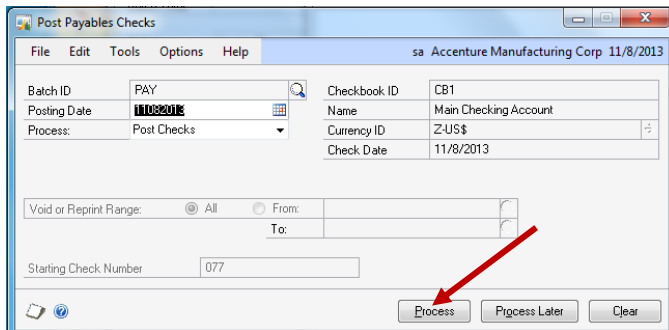
16. After printing, the Post payable check window opens.

17. Click 'Process.'

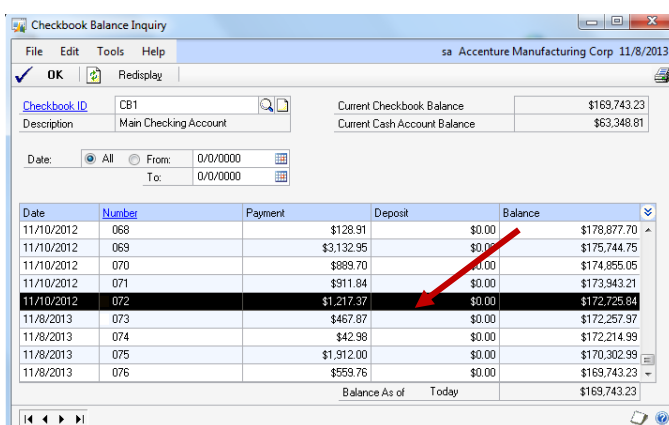
18. Print all to the PDF files.

19. Close the Select Payable Checks window.

20.

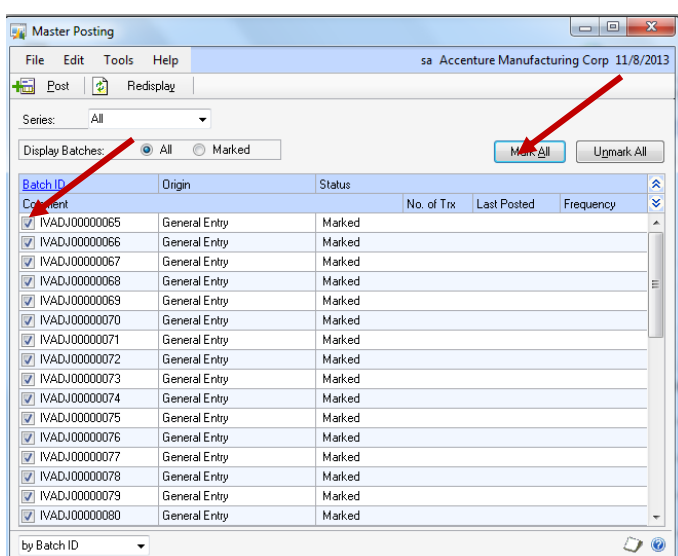


21. Go to Inquiry<<Financial<<Checkbook Balance
22. Select CB1 for Checkbook ID by using the lookup icon.
23. The total amount should appear under the Payment column.



**Post the all business transactions (Manufacturing, Purchasing, Sales, Financial) to the general ledger:**

1. Go to Microsoft Dynamics GP >> Tools>> Routines >>Master Posting
2. Click “mark all’ to mark all un-posted batch IDs.
3. Click ‘Post.’



By clearing out all batch IDs at the master posting window, students have now completed their weekly exercise successfully.

**Note to Instructors**

Each week, instructor can expand coverage of the weekly exercise by adding other process activities from Human Resources, Accounting, and Finance departments. Although this case handles a limited number of products, vendors, and customers, students can learn what processes are necessary for completion and how these processes are integrated into the business firm. Because of the integrated design of this curriculum, it would be suitable to teach this in a capstone course at the undergraduate senior level for Operations Management majors, or at the beginning of the MBA curriculum. Lastly, this Dynamics GP course can be used in other areas within the College of Business if the instructor chooses to teach only the marketing, accounting, or finance modules.

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