 CHAPTER 7: FINISHING ORDERS AND AUTO REPORTING  

Objectives  

The objectives are:  

- Finish Production Orders  
- Conduct Automatic Reporting  
- Be able to record finished production.  

Introduction  

This chapter examines the finishing of production orders in Microsoft Dynamics® NAV 2009. This is the last step in the production execution process. After the production order is finished, the flushing of materials is done either automatically or manually. The chapter goes into details with the different flushing methods: forward and backward flushing, and their advantages and disadvantages. Finally, the production posting is done either manually or automatically.
Finishing Production Orders

Released production orders are Finished when the Change Production Order Status function has been performed, either directly from the production order (by clicking the Change status button on a production) or as a batch (Departments>Manufacturing > Execution > Tasks> Change Production Order Status).

Finished production orders allow users to view the detailed history of production orders, including their routings and components. This is a valuable feature if users are operating in a make-to-order (MTO) environment where they change the routings and components as they work. When customers call later to reorder, it is easy to view what they previously ordered.

**NOTE**: When a production order is finished, users are not able to post to it anymore.

In an MTO environment, a finished production order may be used as a template for creating new production orders. This is done with the Copy Prod. Order Document function.

**Demonstration 1**

The following demonstration shows the process of copying an existing finished production order into a new planned production order.

1. In the navigation pane, click the Planned Production Orders button.
2. Click New.
3. Click the Description field.
5. In the Status field, select Planned.
7. Place a check mark in the Include Header field to copy the existing header information to the new production order record.
8. Click OK.

**Demonstration 2**

This demonstration shows how to finish a production order.
A production order is finished by changing the status on the order:

1. In the navigation pane, click the Released Production Orders button.
2. Select a released production order.
3. Click **Change Status** from the Process actions group.
4. Select **Finished** and enter a posting date.

![Change Status on Prod. Order](image)

**FIGURE 7.1 CHANGE STATUS OF PRODUCTION ORDER WINDOW.**

5. Click **Yes** to confirm.
6. Note the Finished Production Order number in the displayed message.

All old production order ledger entries can be viewed using finished production orders. Accordingly, the released production order ledger entries are moved to the finished production order ledger.

1. In the navigation pane, click the **Finished Production Orders** button.
2. Select a finished production order.
3. Click **Related Information > Prod. Order > Entries > Capacity Ledger Entries.**
Among others, information pertaining to quantity, work and machines centers are shown. To view the costs of a production order, look at the production order statistics window.

1. Select a finished production order.
2. Click the Statistics from the Process actions group.

![FIGURE 7.2 PRODUCTION ORDER STATISTICS FOR PRODUCTION ORDER NO. 1011001.]

**Automatic Consumption Posting (Flushing)**

Users can set up a flushing method for each item.

Think of the term "flushing" as a method for reporting the following:

- Materials used
- Production order quantity completed
- Time reported

The following table summarizes the reporting methods and gives an overview of what to report and how to report it.

<table>
<thead>
<tr>
<th></th>
<th>Manual</th>
<th>Automatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Consumed</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Quantity Completed</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Time Reported</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Automatic methods include:</td>
<td>Forward</td>
<td>Backward</td>
</tr>
<tr>
<td>Material Consumed</td>
<td>Expected Quantity</td>
<td>Actual Quantity</td>
</tr>
<tr>
<td>Entire Order</td>
<td>When production order is released</td>
<td>When production order is finished</td>
</tr>
</tbody>
</table>
Chapter 7: Finishing Orders and Auto Reporting

<table>
<thead>
<tr>
<th>Routing Link Codes (RLC)</th>
<th>Manual</th>
<th>Automatic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>After start of operation step</td>
<td>When quantity of assembly is recorded in output journal</td>
</tr>
<tr>
<td>Quantity Completed / Time Reported</td>
<td>Expected Quantity</td>
<td>Expected Quantity</td>
</tr>
<tr>
<td>Entire Order</td>
<td>When production order is released</td>
<td>When production order is finished</td>
</tr>
</tbody>
</table>

### Advantages of Automatic Reporting

The following are the advantages of Automatic Reporting:

- Reduces the number of required manual activities.
- Calculates how many parent parts were actually produced through the back flushing method.
- Provides a flexible solution. In certain kinds of production, parent parts production is not known until the Released Production Order (RPO) is completed.

### Disadvantages of Automatic Reporting

The following are disadvantages of Automatic Reporting:

- If you scrap components along the way, procedures might not be in place to report that usage.
- Back flushing creates a temporary inventory record mismatch; that is, an overstated warehouse inventory and understated WIP inventory.

### Automatic Reporting - Forward Flush the Entire Order

When forward flushing the production order at the start of the job, note the following:

- Production BOM content
- Consumption Quantity
- Consumption Recording
- Inventory Consumption
- Routing Links

The behavior of the program is similar to a manual consumption. (The major difference is that consumption happens automatically.)

The entire contents of the production BOM are consumed and deducted from inventory at the time the released production order is refreshed.
The consumption quantity is the quantity on each assembly stated on the production BOM, multiplied by the number of parent items built.

There is no need to record any information in the consumption journal if all of the items are to be flushed.

When consuming items from inventory, it does not matter when output journal entries are made, because the output journal has no effect on this mode of consumption posting.

No routing link codes can be set.

**Demonstration 3**

The following demonstration shows the steps to follow to forward flush the entire order. First, select and modify the production BOM that you work with:

1. In the navigation pane, click the **Production BOMs** button.
2. Select a production BOM card. For example, 1000 (Bicycle).
3. Check that the **Routing Link Codes** column contain no entries. If a Routing Link Code is specified for any of the lines, then do the following:
   - Change the status to Under Development.
   - Delete the Routing Link Codes.
   - Change the status back to Certified.
   - Record the item numbers for the contents of the BOM.

   Next, the item cards for the production BOM contents must be modified:

   1. In the navigation pane, click the **Items** button.
   2. Open the item card for the first item number on your list. For example, 1100 (front wheel).
   3. On the **Replenishment** FastTab, select Forward in the **Flushing Method** field.
   4. Click **OK**.
   5. Repeat steps 2-4 for all of the items on your list.

Finally, create a firm planned production order. When changing the status to Released, the system automatically consumes all of the items:

8. In the navigation pane, click the **Firm Planned Production Orders** button.
9. Enter a new production order using the following information:
   - **Source Type:** Item
   - **Source No.:** 1000 (Bicycle)
   - **Quantity:** 5
   - **Due Date:** 02/28/2010
10. Click **Refresh**.
11. Click **OK** to refresh the Production Order.
12. Change the due date to 02/23/08.
13. Click **Change Status**.
14. Click **Yes** to change the status to **Released**.
15. Write down the released production order number.
16. Click **OK**.
17. In the navigation pane, click the **Released Production Orders** button.
18. Open the released production order that you created.
19. Go to **Related Information > Entries > Item Ledger Entries**.
20. Click **Close**.

Note that all of the components that were set up with Forward in the **Flushing Method** field have been consumed.

Forward flushing an entire order is suited in production environments with:

- A low number of defects
- A low number of operations
- High component consumption in early operations

**Automatic Reporting - Forward Flushing by Operation**

Flushing by operation allows users to deduct inventory during a specific operation in the routing of the parent item. Material is tied to the routing using routing link codes, which correspond to routing link codes applied to components in the production BOM.

The flush takes place when the operation that has the same routing link code is started. Started means that some activity is recorded in the output journal for that operation; and that activity might be that a setup time is entered.

The amount of the flush is for the quantity for each assembly stated on the production BOM multiplied by the number of parent items being built (expected quantity).

This technique is best employed when there are many operations and certain components are not needed until late in the assembly sequence. In fact, a JIT setup may not even have the items on hand when the released production order is begun.

Material can be consumed during operations by using routing link codes. Some components may not be used until final assembly operations and must not be withdrawn from stock until that time.

In order to forward flush by operation, make sure to set up at least three routing link codes in the program.
To view and create routing link codes, go to: Departments > Manufacturing > Capacities > Setup > Routing Links.

**Demonstration 4**

The following demonstration establishes a released production order (RPO). First, add routing link codes to the production BOM.

**NOTE:** If you select item 1200 (back wheel) for this demo, check that all the items are set to forward flushing. The components for the back wheel are: Rim, Spokes, Tire, Tube and Back Hub.

1. In the navigation pane, click the Production BOMs button.
2. Select a production BOM card with at least three components. For example, item 1200 (Back Wheel).
3. Change the status to Under Development.
4. In the Routing Link Code field for each line, use the lookup arrow to select an operation for that line. For the following exercises to work, you need to assign at least three different operation codes.
5. Select these routing links codes for these items:

<table>
<thead>
<tr>
<th>Item</th>
<th>Routing Link Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rim</td>
<td>100</td>
</tr>
<tr>
<td>Spokes</td>
<td>200</td>
</tr>
<tr>
<td>Back Hub</td>
<td>300</td>
</tr>
<tr>
<td>Tire</td>
<td>100</td>
</tr>
<tr>
<td>Tube</td>
<td>100</td>
</tr>
</tbody>
</table>

6. Click OK.
7. In the navigation pane, click the Routings button and find the routing card for the production BOM item 1200, Back Wheel.
8. Change the status to Under Development.
9. In the Routing Link Code field, assign a different routing link code (100, 200 or 300) for every work center and machine center. For example:

<table>
<thead>
<tr>
<th>No. &amp; Description</th>
<th>Routing Link Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 (Rim Assembly)</td>
<td>100</td>
</tr>
<tr>
<td>410 (Drilling)</td>
<td>200</td>
</tr>
<tr>
<td>420 (Deburr)</td>
<td>100</td>
</tr>
<tr>
<td>440 (Machine Inspection)</td>
<td>300</td>
</tr>
<tr>
<td>No. &amp; Description</td>
<td>Routing Link Code</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>110 (Wheel Assembly)</td>
<td>100</td>
</tr>
</tbody>
</table>

10. Change the status to Certified.
11. Click **OK**.
12. Go back to the Production BOM card (Back Wheel).
13. Change the status to Certified.
14. Click **OK**.

Continue by creating a new production order for the production BOM item number just set up.

1. Create a released production order with these data:
   - **Source Type:** Item
   - **Source No.:** The item number for the production BOM, item **1200** (Back Wheel).
   - **Quantity:** 5
   - **Due Date:** 02/20/2010

2. Click **Refresh**.
3. Click **OK** to refresh the Production Order.
4. View the production order ledger entries for the released production order. Go to **Related Information > Order > Entries > Item Ledger Entries**. Note that there are no consumption entries.
5. Close the item ledger entries window and click **OK**.

In this demonstration, record just a small amount of time for this order. Record the setup time for operation 10, Rim Assembly.

6. In the navigation pane, Click the **Departments** button.
7. Go to **Manufacturing > Execution > Tasks > Output Journals**. Enter 02/09/2010 as the posting date on the first line of the output journal.
8. Select the released production order (Back Wheel) that you just created.
9. Select **Explode Routing**.
10. Delete all lines except Rim Assembly.
11. Enter the following values:

<table>
<thead>
<tr>
<th>Setup Time</th>
<th>30 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Quantity</td>
<td>0 pieces</td>
</tr>
</tbody>
</table>

If the Setup time column is not visible, use the Choose columns functionality.

12. Click Post to post the output. You can also print a test report and/or use the Post and Print option.
13. Click Yes to post the journal lines.
14. Press Esc and return to the Released Production Order.
15. From the released production order, go to Related Information > Order > Order > Entries > Capacity Ledger Entries. Notice that the setup time of 30 minutes has been applied to the Released Production Order. If the Setup time column is not visible, use the Choose columns functionality.
16. Close the window.
17. Go to Related Information > Order > Order > Entries > Item Ledger Entries.

The components of the production BOM that were assigned to this Operation Code have been consumed and applied to the order.

This illustrates the principle of automatic reporting - forward flushing by operation. Only components that are processed in the operation that you assigned time to are consumed.

The above demonstration did not apply any run time to the released production order. In forward flushing by operation, any activity applied to the operation causes consumption posting to occur.

**Demonstration 5**

In the following demonstration, apply some process times to the operations:

1. In the navigation pane, Click the Departments button.
2. Go to Manufacturing > Execution > Tasks > Output Journals.
3. Enter 02/09/2010 as the posting date on the first line of the output journal.
4. Again, select the released production order that you created.
5. Click Explode Routing.
6. Delete all but the first two lines.
7. Enter the following information:
   
   **Set up time for operation 10:** 25 minutes
   
   **Run time for operation 10:** 180 minutes
   
   **Output quantity:** 3 pcs
   
   **Set up time for operation 20:** 30 minutes
   
   **Run time for operation 20:** 400 minutes
   
   **Output quantity:** 3 pcs
   
8. Click *Post*.

9. When posting is complete, press *Esc* and return to the Released Production Order to review the ledger entries.

10. From the released production order, go to Related Information > Order > Entries > Capacity Ledger Entries.

11. Click *Close*.

12. Close the production order.

This window shows the progress to date after the application of the run time for operation 10 and the setup and run time for operation 20.

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**NOTE:** Note the quantity of the item ledger entries. Forward flushing uses the expected quantity.

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Now complete the output journal for the rest of the Released Production Order.

1. In the navigation pane, Click the **Departments** button.

2. Go to Manufacturing > Execution > Tasks > Output Journals.

3. Enter 02/09/2010 as the post date on the first line of the output journal.

4. Select your released production order.

5. Click **Explode Routing**.

6. Delete all except operation 30 in the output journal.

7. Enter the following information for production order for an item number:

   **Setup time for operation 30:** 30 minutes

   **Run time for operation 30:** 360 minutes

   **Output Quantity:** 3 pcs

8. Post and return to the order to review the results.
**NOTE**: Forward flushing is based on expected quantities for the parent item. Even if the quantity completed for the production order item is less than the total of the production order quantity, the entire quantity of the component is consumed.

This completes the illustration of these two types of forward flushing:

- Flushing the job as a whole
- Flushing by operation

**Automatic Reporting - Back Flushing by Operation**

Back flushing by operation records consumption after the operation is posted in the output journal.

This gives the advantage of knowing just how many parent parts were finished in that operation.

Connect the material in the production BOM to the routing records using routing link codes. The back flush takes place when an operation with a particular routing link code is posted with a finished quantity.

The amount of the flush is for the quantity for each assembly stated on the production BOM, multiplied by the number of parent items that were posted as output quantity at that operation. This may be different from the expected quantity.

**Demonstration 6**

This demonstration shows the steps to follow to back flush by operation.

To accomplish this, first change all of the item cards that were earlier set to the flushing method Forward to the flushing method Backward.

1. Find the Item cards that you modified earlier in this chapter and change the flushing method to backward on the **Replenishment** FastTab.

If you selected the back wheel, the items you need to change to backward flushing are: Rim, Spokes, Tire, Tube and Back Hub.

2. Create a new released production order for the production BOM that you selected in the first exercise with these data:
   - **Source Type**: Item
   - **Source No.**: The item number for the production BOM, item **1200** (Back wheel).
   - **Quantity**: 5
   - **Due Date**: 02/15/2010
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3. Click **Refresh**.
4. Click **OK** to refresh the Production Order.
5. Click **OK**.
6. In the navigation pane, Click the **Departments** button.
7. Go to **Manufacturing > Execution > Tasks > Output Journals**. Enter 02/21/2010 as the posting date on the first line of the output journal.
8. Select the production order that you just created.
9. Click **Explode Routing**.
10. Delete all of the lines except for operation 30.
11. Enter the following information:

   **Setup time for operation 30**: 30 minutes

   **Run time for operation 30**: 240 minutes

   **Output Quantity**: 4 pcs

12. Click **Post** and post the journal line.
13. Press **Ese** to close the output journal and return to the Released Production Order.
14. View the capacity and item ledger entries.
15. Close the production order.

**NOTE**: Back flushing by operation consumes items linked to that operation by the actual output quantity reported in the output journal.

**Automatic Reporting - Back Flushing the Entire Order**

This reporting method does not consider routing link codes.

No components are picked until the released production order status is changed to Finished. The amount of the flush is the quantity per assembly stated on the production BOM multiplied by the number of parent items that were finished and placed into inventory.
Demonstration 7

This demonstration shows the back flushing of the entire order:

1. Open the production BOM for your selected item. For example, 1200 (Back Wheel).
2. Change the status to Under Development, remove all of the routing link codes, and change the status back to Certified.
3. Click OK.
4. Create a new released production order for a quantity of five for the selected Production BOM, due on 02/15/2010.
5. Click Refresh using the default options.
6. Click OK.
7. Close your production order.
8. In the navigation pane, Click the Departments button.
9. Go to Manufacturing > Execution> Tasks > Output Journals. Enter 02/15/2010 as the posting date on the first line of the output journal.

10. Select the latest production order for your selected item.
11. Click Explode Routing.
12. Enter the following process times (keep default output).

<table>
<thead>
<tr>
<th>Operation</th>
<th>Setup Time</th>
<th>Run time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation 10</td>
<td>30 minutes</td>
<td>300 minutes</td>
</tr>
<tr>
<td>Operation 20</td>
<td>30 minutes</td>
<td>600 minutes</td>
</tr>
<tr>
<td>Operation 30</td>
<td>30 minutes</td>
<td>600 minutes</td>
</tr>
</tbody>
</table>

If there are more than these operations, choose a setup time and run time.

13. Click Post and post the journal lines.
14. Click OK.
15. Open your production order.
16. Click Change Status.
17. Select status Finished and a posting date of 02/15/2010.
18. Click Yes.
19. Close the released production order window.
20. In the navigation pane, click the Finished Production Orders button.
21. Open your finished production order.
22. Go to Related Information > Order > Entries > Item Ledger Entries.
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Observe that all of the material consumption entries are now displayed.

23. Before proceeding, change all of the item cards that have been set to flushing method "Backward" back to flushing method "Manual".

If you selected the back wheel, the items you need to change to manual flushing are: Rim, Spokes, Tire, Tube and Back Hub.

**Automatic Production Posting**

As with material consumption, users can set the program up to automatically record finished production.

To illustrate this, set up a machine or work center used on a routing operation that has been set to be automatically flushed. More information and set up details can be found in the "Basic Capacities and Routings" chapter in this manual that discusses machine and work centers.

As with materials, there are two methods of automatic reporting:

- **Forward**
- **Backward**

When you select the forward option, operation time and output quantity are automatically recorded at the release of a production order. Routing link codes are not a factor in the forward flushing of the output.

When you use the backward method, operation time and output quantity are automatically recorded when the status of a production order is changed to finished. Routing link codes are not a factor in the back flushing of the output.

**Establishing Automatic Production Posting**

**Demonstration 8**

This demonstration shows how to change the reporting method on one of the Machine Centers to forward flushing:

1. In the navigation pane, click the **Routings** button and open the routing card for the production card you have been using. In this case, item **1200** (Back Wheel).
2. Make a note of all the machine and work centers. These are found on the lines, in the Type and No. fields.
3. Click **OK**.
4. In the navigation pane, click the **Departments** button.
5. Go to **Manufacturing > Capacities > Lists > Machine Centers**.
6. Select a machine center from your list. For example, 440 (Machine inspection).
7. From the Posting FastTab, change the flushing method to "Forward" and click OK.

8. In the navigation pane, click the Firm Planned Production Orders button.

9. Click New.

10. Use the following data:

    Source Type: Item
    Source No: The item number for the production BOM (1200, Back wheel).
    Quantity: 5
    Due Date: 02/20/2010

11. Click Refresh and accept the defaults.

12. Click Change Status, select Released and change the posting date to 02/20/2010.

13. Note the new production order number.

14. Click OK.

View the released production order and review the capacity ledger entries.

15. In the navigation pane, click the Released Production Orders button.

16. Open the released production order that you created.

17. Go to Related Information > Order > Entries > Capacity Ledger Entries. Notice that the machine center selected appears as an entry.

18. Click Close.

Conclude the review of flushing by looking at the back flushing of production.

Set the flushing method on the machine centers and work centers that display in the routing for the selected item to be back flushed:

19. In the navigation pane, click the Departments button.


21. Go to the first machine center on your list.

22. Change the flushing method to "Backward".

23. Repeat this for all the machine centers on your list.

24. In the navigation pane, click the Departments button.


26. Change the flushing method to Backward for any work centers on your list.

27. Create another released order for five items.

28. In the navigation pane, click the Released Production Orders button.

29. Click New.
30. Use the following data:

**Source Type:** Item  
**Source No:** The item number for the production BOM (1200, Back wheel).  
**Quantity:** 5  
**Due Date:** 02/25/2010

31. Click **Refresh** and accept the defaults.  
32. Return to the released production order and notice that no output entries have been posted.  
33. Click **Change Status**, select "Released" and change the posting date to 02/26/2010. (Ignore the message that some output is still missing.)  
34. Note the new production order number.  
35. Click **OK**.

Now view the entries under the finished order. View the released production order and review the capacity ledger entries.

36. In the navigation pane, click the **Finished Production Orders** button.  
37. Open the released production order that you created.  
38. Go to **Related Information> Order > Entries > Capacity Ledger Entries**.

Output entries have been posted that reflect the setup and run times in the routing, multiplied by the production order quantity.

39. Click **Close**.  
40. Reset the flushing of all the machine and centers that you changed to Manual.

**Summary**

This chapter demonstrates how forward and backward flushing methods can be used to finish production orders. This can be done either by operation or to the entire order.

Additionally, posting can also occur automatically in a production order to record consumption.
Lab 7.1 - Finishing Orders and Auto Reporting

Scenario

Production Order with Forward Flushing

1. Create a firm planned production order for bicycle 1000, with a quantity of two and due date of 01/15/2010. Refresh this production order.
2. Change all components to forward flush. Delete all routing link codes. Change the status to Released.
3. Select the released production order for the two bicycles, item 1000, created in the previous step. Review the production order ledger entries.

Step by Step

Answer

1. In the navigation pane, click the Firm Planned Production Orders button.
2. Click New.
3. In the Source number field, enter 1000 (Bicycle).
4. In the Quantity field, enter 2.
5. In the Due Date field, enter 01/15/2010.
6. Click Refresh.
7. Accept all default information and click the OK button.
8. From the Lines FastTab, click the Actions button (lightning bolt symbol) and go to Line>Components.
9. Change the flushing method to "Forward" on every line.
10. Delete the routing link codes (if any). If the Routing Link Code header is not visible, you need to right-click the header, select Choose Columns and select Routing Link Code.
11. Click OK.
12. Click Change Status.
13. Ensure that the posting date is 01/16/2010.
14. Accept the default of release and click OK.
15. Close the production order.
16. In the navigation pane, click the Released Production Orders button.
17. Open the production order that you released.
18. Go to Related Information>Order>Entries>Item Ledger Entries. You can view all the consumption entries.
19. Click Close
Production Order with Forward Flushing and Routing Codes

1. Create a new firm planned production order for three more bicycles, item 1000 with a due date of 01/15/2010. Refresh the production order.
2. Change all operations to Forward Flush. Change the status of the production order to Released.
3. Review the production order ledger entries.

Step by Step

Answer

1. In the navigation pane, click the Firm Planned Production Orders button.
2. Click New.
3. In the Source number field, enter 1000.
4. In the Quantity field, enter 3.
5. In the Due Date field, enter 01/15/2010.
6. Click Refresh.
7. Accept all default information and click OK.
8. From the Lines FastTab, click the Actions button (lightning bolt symbol) and go to Line>Routing.
9. Change the flushing method to "Forward" on every line. If the Flushing Method header is not visible, you need to right-click the header, select Choose Columns and select Flushing Method.
10. Change the flushing method to "Forward" on every line.
11. Click OK.
12. Click Change Status.
13. Ensure that the posting date is 01/16/2010.
14. Accept the default of release and click YES.
15. Note the new production order number.
16. Close the production order.
17. In the navigation pane, click the Released Production Orders button.
18. Open the production order you just created.
19. Go to Related Information>Order>Entries>Item Ledger Entries. View the item entry that is made when you post routing operations: an output entry.
20. Click Close.
Scrap

Process the bicycle back hub, item 1250, with the following steps:

1. Select Backward as the Flushing Method for the Axle Back Wheel 1251 and the Socket Back 1255.
2. Create a Firm Planned Production Order (FPPO) for 100 Back Hubs 1250 due on 02/15/2010.
3. Convert the firm planned production order to a released production order.
4. Utilize the output journal with the run and setup times indicated below to complete 98 and scrap 2 of item 1250, Back Hub. Choose to accept 98 into inventory and not to withdraw more materials from stock to make up the shortage.

<table>
<thead>
<tr>
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5. Convert the released production order to a finished production order and review the ledger entries.

Step by Step

Answer

1. In the navigation pane, click the Items button.
2. Open item 1251 (Axle Back Wheel).
3. Go to the Replenishment FastTab.
4. In the Flushing method field, choose "Backward".
5. Click OK.
6. Open item 1255 (Socket Back).
7. Go to the Replenishment FastTab.
8. In the Flushing method field, choose "Backward".
9. Click OK.
10. In the navigation pane, click the Firm Planned Production Orders button.
11. Click New.
12. Enter 1250 in the Source No. field.
13. Enter 100 in the Quantity field.
14. Enter a due date of 02/15/2010.
15. Click Refresh and click OK.
16. Click Change Status.
17. Check that the new status is "Released" with a posting date of 02/15/2010, and click Yes.
18. Note the released production order number.
19. Close the firm planned production order window.
20. In the navigation pane, click the Departments button.
22. Enter a posting date of 02/15/2010.
23. In the Prod. Order No. column, choose your newly created released production order.
24. Click Explode Routing.
25. Enter the following information:

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26. In operation 60 (Inspection of Hub), enter an output quantity of 98 and a scrap quantity of 2.
27. Click Post and choose Yes to post the journal lines.
28. Close the output journal window.
29. In the navigation pane, click the Released Production Orders button.
30. Open the production order for the 100 back hubs (source no. 1250).
31. If you look at the finished good line of the production order, notice that finished quantity is 98 and scrapped or remaining quantity is 2.
32. Click Change Status.
33. Check that the new status is "Finished" with a posting date of 02/15/2010, and click Yes.
34. Choose Yes at the message that some output has not been completed.
35. Close the released production order window.
36. In the navigation pane, click the Finished Production Orders button.
37. Open the production order for the 100 back hubs (source no. 1250).
38. Go to Related Information>Order>Entries>Item Ledger Entries.
39. Observe that consumption for items 1251 and 1255 have been posted for the expected quantity.
40. Close the Item Ledger Entries window.
Quick Interaction: Lessons Learned

Take a moment and write down three key points you have learned from this chapter

1. 

2. 

3. 

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