



ORCHESTRA

Production

Part 3 of 3

This guide will introduce you to the concepts, basics and main processes of Orchestrated Production. Let's get Brewing!



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Additional scenarios

Close production orders



Modules > Production > Automation > PdO Close Wizard

Close Production Orders

Process Type: Status:

Start Date: End Date: Close Date:

	Production Order	Prod Date	Batch	Item Code	Item Name	Status	Planned Qty	Completed Qty
<input checked="" type="checkbox"/>	11546	09/14/2016	IPA150Training	GB1003	Green Beer - IPA	Received	60.00	60.00
<input checked="" type="checkbox"/>	11544	09/14/2016	IPA150Training	W1003	Wort - IPA	Received	30.00	30.00
<input checked="" type="checkbox"/>	11545	09/14/2016	IPA150Training	W1003	Wort - IPA	Received	30.00	30.00
<input checked="" type="checkbox"/>	11547	09/21/2016	IPA150Training	DH1003	Dry Hopped Beer - IPA	Received	60.00	60.00
<input checked="" type="checkbox"/>	11548	09/27/2016	IPA150Training	BB1003	Bright Beer - IPA	Received	54.00	54.00
<input checked="" type="checkbox"/>	11550	10/06/2016	IPA150Training	1003-K12	IPA - Keg 1/2 BBL	Received	30.00	30.00
<input checked="" type="checkbox"/>	11551	10/06/2016	IPA150Training	1003-K16	IPA - Keg 1/6 BBL	Received	30.00	30.00

1. Open PdO Close Wizard
2. Select 'Status' dropdown and choose Received
3. Select 'Start Date' & 'End Date' for the Production Orders you are ready to close
4. Click **<Search>**
5. In the left-hand column, checkmark the Production Orders you would like to close
6. Click **<Close>** **<Yes>** **<Cancel>**



Empty tanks

Modules > Production > Production Forms > Packaging Worksheet

1. Open Packaging Worksheet
2. Select Location
3. Verify leftover amount in Warehouse
 - a. Under Current Tank Status table
4. Click in the top left dropdown <Goods Issue> click <Create New>
5. Select date liquid was lost
6. Fill out item that needs to be issued out/emptied (i.e. BB1001)
7. Enter quantity that was lost (typically matches quantity in Warehouse)
8. Input Warehouse where liquid is located (i.e. BT01)
9. Variance Reason dropdown > choose specific reason
10. Click <Add> <Auto-Select All> <OK> <Add> <Yes> <Cancel>
11. On the Packaging Worksheet click <Refresh Matrix> to verify removal of liquid



Current Tank Status :

Whse	Item Code	Item Name	Volume	Batch
B01	BB1003	Bright Beer - IPA	1.00	IPA149ST

Goods Issue

Number: 11488 Series: Primary Posting Date: 09/22/2016
Price List: Last Purchase Price Document Date: 09/22/2016
Ref. 2

#	Item No.	Item Description	Quantity	Whse	Inventor...	Item Cost	UoM Code	UoM Name	Distr. Rule	Variance Reason
1	BB1003	Bright Beer - IPA	1	B01	51025-01		Manual	BBL		Misc. Loss
2										

Remarks:

Journal Remark: Goods Issue



Disassemble an incorrectly expressed PdO

Modules > Production > Production Forms > [Brewing/Cellar/Packaging Worksheet](#)

1. Open the worksheet associated with the production order that was incorrectly expressed (i.e. Wort on the Brewing Worksheet, Green/Brite Beer on the Cellar Worksheet)
 - a. *If the item you need to disassemble has been consumed (i.e. Wort was already consumed by Green Beer), you will need to disassemble what consumed it (i.e. Green Beer), and **work backwards***
2. Select Location
3. Select Start Date & End Date for the Production Orders you need to disassemble
4. Ensure Status dropdown is set to 'Released'
5. Click Refresh Matrix
6. Select the Production Order (both issued and receipt boxes should be checked)
7. Drill into the Production Order # (Prod#) via the yellow arrow
 - a. Opens up the single Production Order
8. Right Click <**Disassemble**> <**Yes**> <**Okay**>

Disassemble an
incorrectly
expressed
Production Order



Troubleshooting production

If you see **red bars** during Expressing, this means you are out of inventory or your Production Order is trying to pull inventory from the wrong warehouse.

The screenshot shows the 'Express Production' window with the following fields:

- Production Order: 11554
- Product Code: GB1010
- Product Name: Green Beer - Oktoberfest
- Batch ID: OKT102RED
- Planned Qty: 208
- Receive Qty: 0.00
- Variance: (empty)
- Initials: (empty)
- Warehouse: F01
- Production Date: 09/17/2016
- Due Date: 10/09/2016

Item Code	Item Name	PlannedQty	WHse	ItemCode	BatchNumber	In Stock	In Date	ActQty
01.	W1010 Wort - Oktoberfest	208.00						
			BH01	W1010		0.00		0.00

Drill into the PdO to fix.

The screenshot shows the 'Express Production' window with the 'Production Order' window open. The 'Production Order' window has the following fields:

- Type: Standard
- Status: Released
- Product No.: GB1010
- Product Description: Green Beer - Oktoberfest
- Planned Quantity: 208
- Warehouse: F01
- Master Prod #: 223
- No.: 11554
- Primary: (checked)
- Order Date: 09/17/2016
- Production Date: 09/17/2016
- Production Time: 08:42
- Due Date: 10/09/2016
- User: sberg
- Batch #: OKT102RED

#	Type	No.	Description	Base ...	Planned...	Issued	Avail...	UoM ...	UoM ...	Wareho...	Issue Method	Distr. Rule	WIP Account
1	Item	W1010	Wort - Oktoberfest	1	208			Manual	BBL	BH01	Manual		
2	Item												

Once updates/corrections are made. Click <**Refresh**>

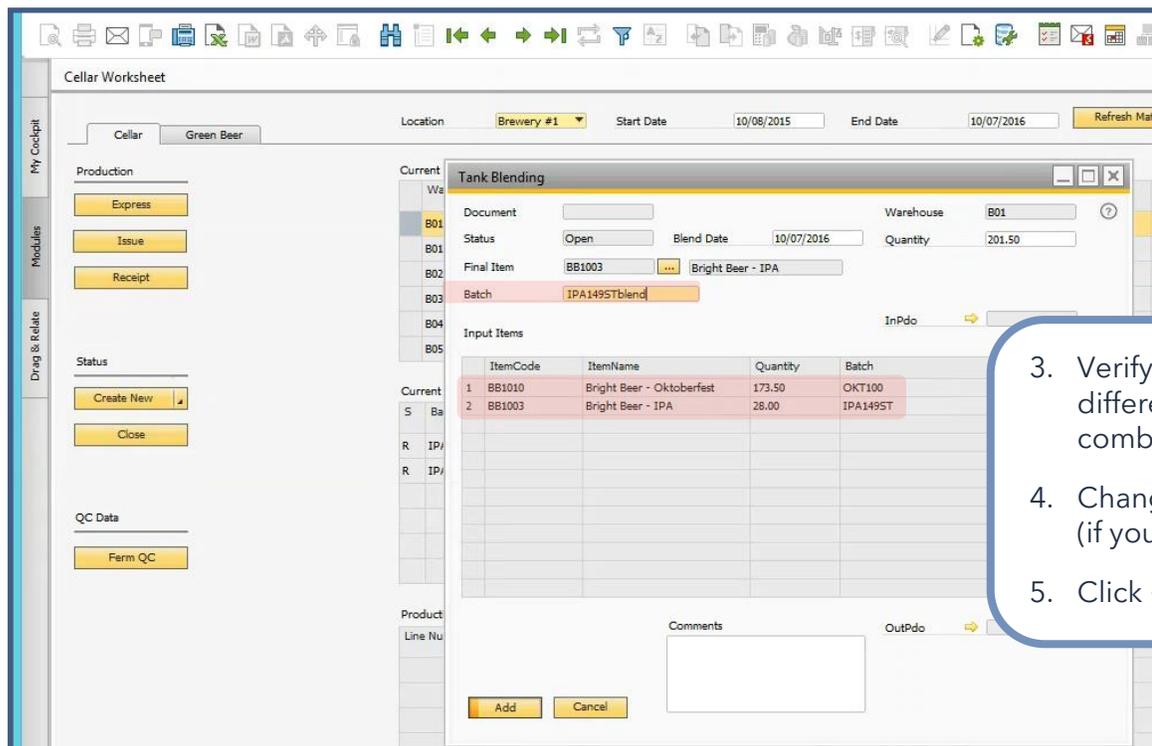
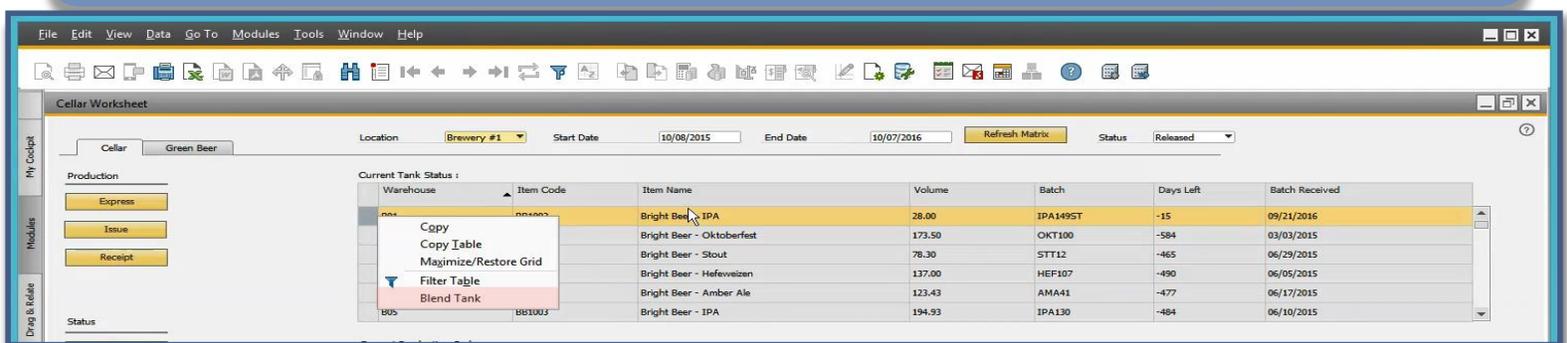
Refresh



Blend two batches of beer together

Modules > Production > Production Forms > Cellar Worksheet

1. Highlight the tank in the Current Tank Status window (this will be the tank that contains 2 different batches)
2. **<Right Click>** choose Blend Tank



3. Verify the combination of different batches being combined
4. Change the batch number (if you so choose)
5. Click **<Add>**



Cellar Worksheet

Location: **Brewery #1** Start Date: 10/08/2015 End Date: 10/07/2016 Refresh Matrix Status: Released

Production

Express

Issue

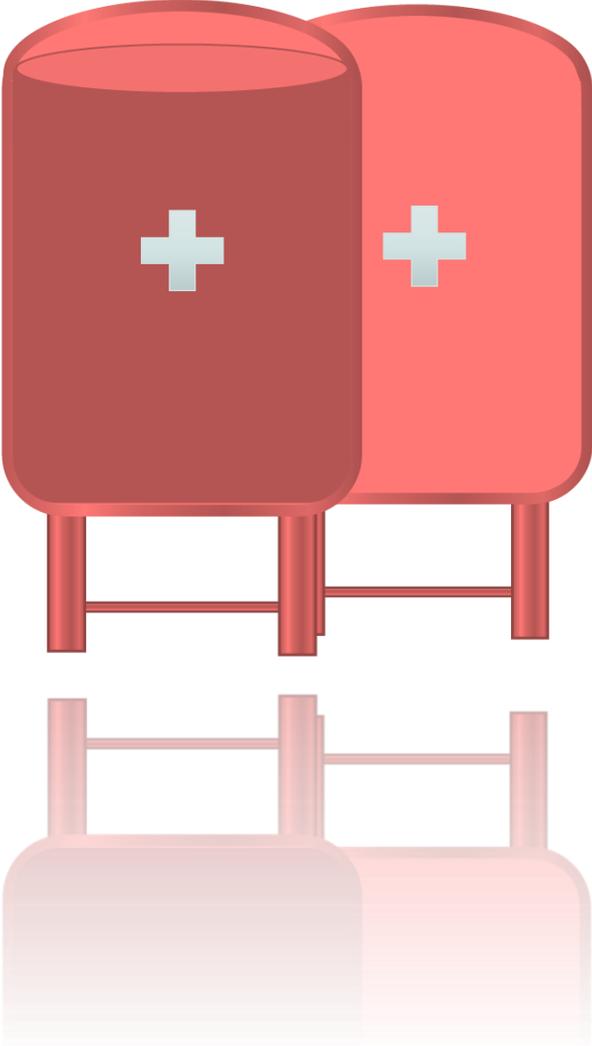
Receipt

Current Tank Status :

Warehouse	Item Code	Item Name	Volume	Batch	Days Left	Batch Received
B01	BB1003	Bright Beer - IPA	201.50	IPA149STblend	1	10/07/2016
B02	BB1004	Bright Beer - Stout	78.30	STT12	-465	06/29/2015
B03	BB1012	Bright Beer - Hefeveizen	137.00	HEF107	-490	06/05/2015
B04	BB1001	Bright Beer - Amber Ale	123.43	AMA41	-477	06/17/2015
B05	BB1003	Bright Beer - IPA	194.93	IPA130	-484	06/10/2015
B06	BB1005	Bright Beer - Portlandia Porter	100.00	DOB04	-444	07/09/2015

Current Production Orders :

- 6. Click <Refresh Matrix>
- 7. Verify the new batch of combined





Inventory transfer

Modules > Inventory > Inventory Transactions > Inventory Transfer

1. Enter the Date you need transfer to take place
2. Fill out the 'From' & 'To' Warehouse
3. Fill out the item that will be transferred
4. Fill out the quantity that needs to be transferred
5. Click <Add>

Inventory Transfer

Business Partner: Number: 10013
Name: Series: Primary
Contact Person: Posting Date: 10/07/2016
Ship To: Document Date: 10/07/2016

From Warehouse: A1
To Warehouse: H501
Price List: Last Purchase Price

#	Item No.	Item Description	Fro...	To Ware...	Quantity	Item Cost	UoM Code	U...
1	RH5006	Hops - Cascade	A1	H501	1		Manual	lb
2			A1	H501				

Sales Employee: -No Sales Employee-
Journal Remarks: Inventory Transfers -
Remarks:

Add **Cancel** **Copy From**



Sales - A/R
Purchasing - A/P
Business Partners
Banking
Inventory

- Item Master Data
- Bar Codes
- Document Printing
- Item Management
- Inventory Transactions
 - Goods Receipt
 - Goods Issue
 - Inventory Transfer Request
 - Inventory Transfer
 - Recurring Transactions
 - Retail Transfer
 - Recurring Transaction Templates
 - Inventory Counting Transactions
 - Inventory Opening Balance
 - Cycle Count Recommendations

Batch Number Selection

Rows from Documents

#	Item No.	Item Description	Whse C...	Quantity	Total Needed	Total Selected	Total Batches	Direction
1	RH5006	Hops - Cascadi	A1	1,000		1,000	1	Out

Available Batches

Find:

#	Batch	Availabl...	Selecte...	Allocate...
1	LOT#8833	4,918		
2	LOT#7485	9,866		
		14,784		

Selected Batches

#	Batch	Selected Qty
1	LOT#8833	1,000
		1,000

Display Available Batches:

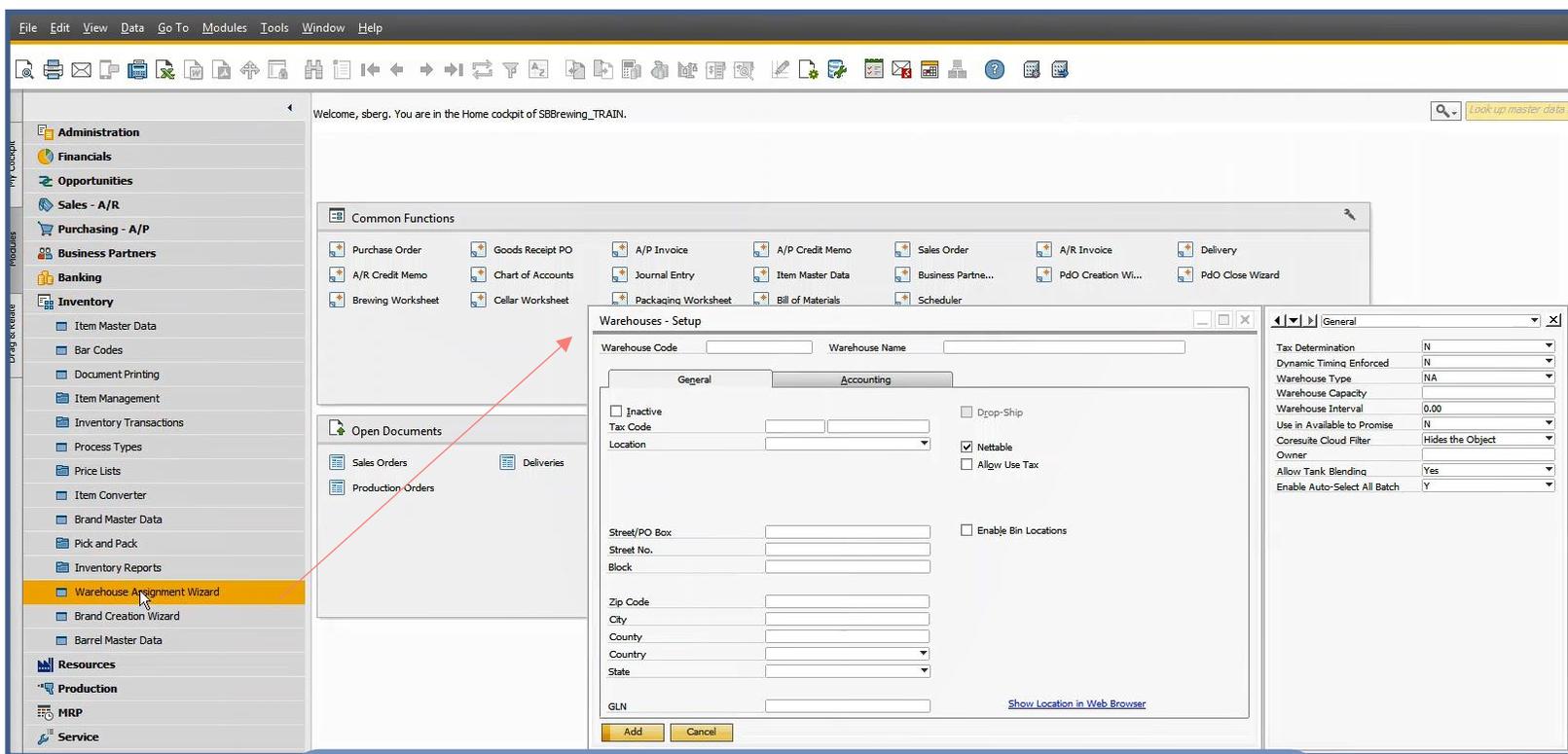
6. Select the correct batch(es) and amounts that will be moved
 - a. Auto-Select All will just pull amounts from the oldest batch first
 - b. **<Update> <Okay> <Add> <Yes>**



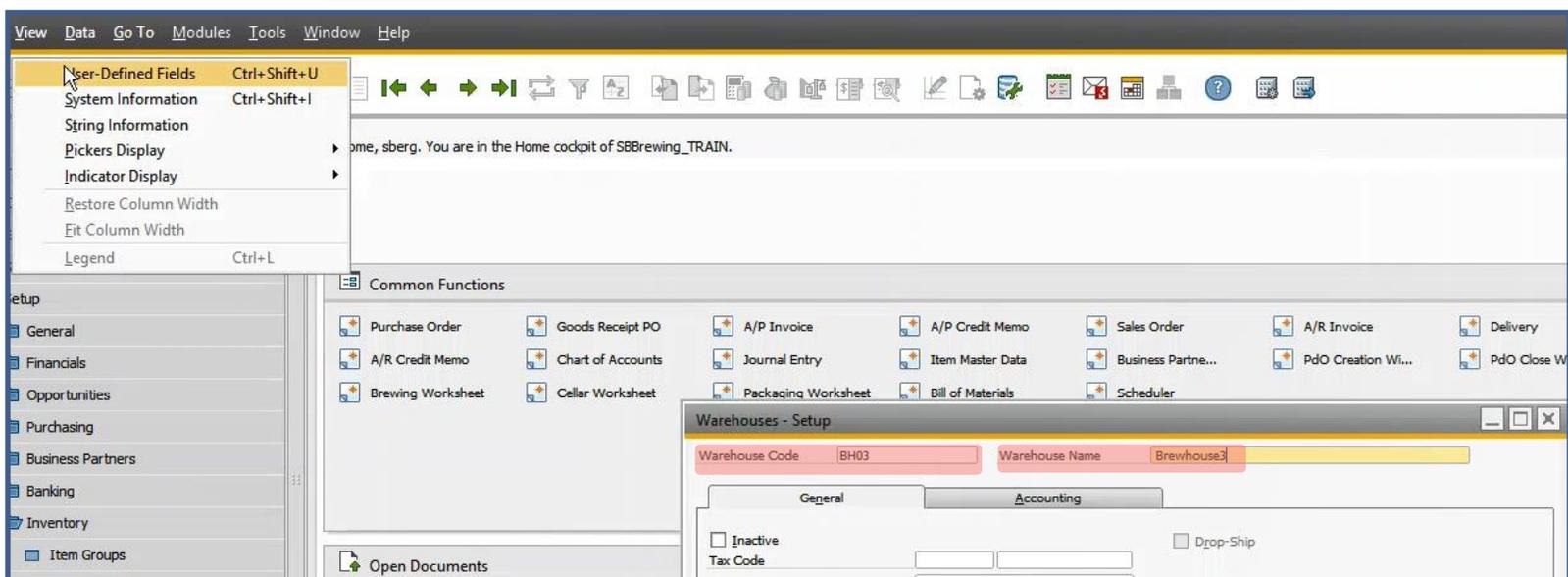


Warehouse assignment wizard

Modules > Administration > Setup > Inventory > Warehouses



1. Add new Warehouse Code
2. Add new Warehouse Name/Description
3. Go to View (Main Menu Bar) > User Defined Fields





4. Under Warehouse Type, add correct type of Warehouse
5. Click **<Add>**

Warehouses - Setup

Warehouse Code: BH03 Warehouse Name: Brewhouse3

General Accounting

Inactive Drop-Ship

Tax Code: Nettable

Location: Allow Use Tax

Street/PO Box: Enable Bin Locations

Street No.:

Block:

Zip Code:

City:

Country:

Country:

State:

GLN: [Show Location in Web Browser](#)

Warehouse Item Wizard

Warehouse Code: BH03 Process Type:

Warehouse Name: Brewhouse3 Item Group:

Defined in Whs:

Search Results

Item Code	Item Name
<input checked="" type="checkbox"/>	RMS041 Malt Torrifed Wheat
<input checked="" type="checkbox"/>	RMS042 Malt Victory
<input checked="" type="checkbox"/>	RMS043 Malt Vienna
<input checked="" type="checkbox"/>	RMS044 Malt Wheat supersack
<input checked="" type="checkbox"/>	RMY7001 Yeast
<input checked="" type="checkbox"/>	RXS005 Barrel - Bourbon
<input checked="" type="checkbox"/>	RXS006 Barrel - Chardonnay
<input checked="" type="checkbox"/>	RXS007 Barrel - Red
<input checked="" type="checkbox"/>	RXS008 Barrel - Rum
<input checked="" type="checkbox"/>	RXS009 Candi Syrup
<input checked="" type="checkbox"/>	RXS010 Coriander
<input checked="" type="checkbox"/>	RXS011 Honey
<input checked="" type="checkbox"/>	RXS012 Brewers Crystals
<input checked="" type="checkbox"/>	RXS013 Oats
<input checked="" type="checkbox"/>	RXS014 Molasses
<input checked="" type="checkbox"/>	RXS015 Orange Peel Bitter
<input checked="" type="checkbox"/>	RXS016 Phosphoric Acid
<input checked="" type="checkbox"/>	RXS017 Pumpkin
<input checked="" type="checkbox"/>	RXS018 Root Beer Extract
<input checked="" type="checkbox"/>	RXS019 Sodium Benzoate

Associated Items

Item Code	Item Name
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6. Go to Modules > Inventory > Warehouse Assignment Wizard (to assign inventory that can be in this new Warehouse)
7. Type in new code
8. Click **<Search>**
9. Select all items that may be added to the new Warehouse (i.e. Raw Malts, Hops, Adjuncts etc.)
10. Click **<OK>**



The screenshot shows the SAP Item Master Data window with the 'Inventory' tab selected. The 'List of Warehouses' dialog box is open, displaying a table of warehouse codes and names. The 'Brewhouse3' warehouse (code BH03) is highlighted. The 'Choose' button is visible at the bottom of the dialog.

#	Warehouse Code	Warehouse Name
16	B15	B15 - Bright Tank 15
17	B16	B16 - Bright Tank 16
18	B99	Bright Tank - DEFAULT
19	BA1	Barrel Aging Warehouse
20	BH01	Brew House 1
21	BH03	Brewhouse3
22	F01	F01 - Fermenter 1
23	F02	F02 - Fermenter 2
24	F03	F03 - Fermenter 3
25	F04	F04 - Fermenter 4

Item Master Data fields:
Item No.: Manual RM5005
Description: Malt 2-Row Bulk
Item Type: Items
Item Group: RM: Malt
UoM Group: Manual
Price List: CA-North
Process Type: None
Inventory Item:
Sales Item:
Purchase Item:

11. To verify the Warehouse was correctly added:

- Via Item Master Data, find an item that was added to the new Warehouse
- Verify Warehouse has successfully been added under the Inventory tab





Reports by persona

<http://support.orchestratedbeer.com/hc/en-us/articles/219972028-Reports-by-Persona>

Production > Production Reports >

TTB BRO Reporting

Production > Production Reports >Orchestrated Reports >

QC Reports

- Packaging Volumes
- Filtration by Batch
- Brewing Data by Batch
- Air Tet
- Batch QC
- QC Analysis

Production > Production Reports >Orchestrated Reports >

Production Dashboard

- Daily production for brewing and packaging
- Capacity utilization
- Raw Material Status
- Current Production Orders (past due | partially completed | scheduled today, tomorrow, future)

Production >

Backtrace Batches

Production > Production Reports >Orchestrated Reports >

Inventory Item Trace

- Aka "Where Used"

Production > Production Reports >Orchestrated Reports >

Indented Costed BOM

- Helpful for setting up and troubleshooting BoMs and BoM costs

Production > Production Reports >Orchestrated Reports >

Production Cost Analysis by Item

- Know your production costs!

