



ORCHESTRA

Production

Part 2 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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- [illegible]



Build Production Run

Starting Point: W1003 Item Name: Wort - IPA Build Direction: Forward QTY: 2.00 Turns: 2

Batch Number: IPA150Training Edit Prod Date: 09/14/2016 Time: 09:28

Outline Production Run

| ItemCode | ItemName | Turns | Qty | Total | Prod Date | Due Date | Start Time | Process | From Whs | To Whs | Interval |
|----------|-------------------|-------|----------|----------|------------|------------|------------|--------------|----------|--------|----------|
| W1003 | Wort - IPA | 2 | 30.00000 | 60.00000 | 09/14/2016 | 09/14/2016 | 09:28 | Brewing | A1 | BH01 | 0 |
| GB1003 | Green Beer - IPA | 1 | 60.00000 | 60.00000 | 09/14/2016 | 09/21/2016 | 09:28 | Fermentation | BH01 | F99 | 0 |
| DH1003 | Dry Hopped Beer | 1 | 60.00000 | 60.00000 | 09/21/2016 | 09/27/2016 | 09:28 | Dry Hopping | F99 | F99 | 0 |
| BB1003 | Bright Beer - IPA | 1 | 54.00000 | 54.00000 | 09/27/2016 | 09/28/2016 | 09:28 | Filtration | F99 | B99 | 0 |

Build Production Run

Starting Point: W1003 Item Name: Wort - IPA Build Direction: Forward QTY: 2.00

Batch Number: IPA150Training Edit Prod Date: 09/14/2016 Time: 09:28

Outline Production Run

| ItemCode | ItemName | Turns | Qty | Total | Prod Date | Due Date | Start Time |
|----------|-------------------|-------|----------|----------|------------|------------|------------|
| W1003 | Wort - IPA | 2 | 30.00000 | 60.00000 | 09/14/2016 | 09/14/2016 | 09:28 |
| GB1003 | Green Beer - IPA | 1 | 60.00000 | 60.00000 | 09/14/2016 | 09/21/2016 | 09:28 |
| DH1003 | Dry Hopped Beer | 1 | 60.00000 | 60.00000 | 09/21/2016 | 09/27/2016 | 09:28 |
| BB1003 | Bright Beer - IPA | 1 | 54.00000 | 54.00000 | 09/27/2016 | 09/28/2016 | 09:28 |

Write to PdO Wizard

10. Entire production run should be outlined

a. Confirm Quantities

i. Wort

1. 'Turns' = # of turns in the Brewhouse (i.e. 2)
2. 'Quantity' = # of BBLs in Brewhouse (i.e. 30)

ii. All other steps (i.e. Green Beer/Add'l Steps/Brite Beer)

1. 'Turns' = 1
2. 'Quantity' = Total BBLs after Brewhouse step(s) (i.e. 60)

b. Update dates for Wort, Green, Add'l Steps, Brite Beer)

- i. 'Production Date' = start date
- ii. 'Due Date' = completion date





Build Production Run

Starting Point: W1003 Item Name: Wort - IPA Build Direction: Forward QTY: 2.00 Turns Batch Number: IPA150Training Edit Prod Date: 09/14/2016 Time: 09:28

Outline Production Run

| ItemCode | ItemName | Turns | Qty | Total | Prod Date | Due Date | Start Time | Process | From Whs | To Whs | Interval |
|----------|-------------------|-------|----------|----------|------------|------------|------------|--------------|----------|--------|----------|
| W1003 | Wort - IPA | 2 | 30.00000 | 60.00000 | 09/14/2016 | 09/14/2016 | 09:28 | Brewing | A1 | BH01 | 0 |
| GB1003 | Green Beer - IPA | 1 | 60.00000 | 60.00000 | 09/14/2016 | 09/21/2016 | 09:28 | Fermentation | BH01 | F99 | 0 |
| DH1003 | Dry Hopped Beer | 1 | 60.00000 | 60.00000 | 09/21/2016 | 09/27/2016 | 09:28 | Dry Hopping | F99 | F99 | 0 |
| BB1003 | Bright Beer - IPA | 1 | 54.00000 | 54.00000 | 09/27/2016 | 09/28/2016 | 09:28 | Filtration | F99 | B99 | 0 |

Write to PdO Wizard **Cancel**

QTY: 2.00 Turns **Time: 09:28**

| Start Time | Process | From Whs | To Whs | Interval |
|------------|--------------|----------|--------|----------|
| 09:28 | Brewing | A1 | BH01 | 0 |
| 09:28 | Fermentation | BH01 | F15 | 0 |
| 09:28 | Dry Hopping | F15 | F15 | 0 |
| 09:28 | Filtration | F15 | B15 | 0 |

- c. Update Warehouses
- i. Wort = comes from A1 and goes into BH01
 - ii. Green Beer = comes from BH01 and goes into FVxx (choose **your** Fermenter)
 - iii. Brite Beer = comes from FVxx and goes into BTxx (chosed **your** Brite Tank)
 - iv. Additional Steps?
 - 1. Barrel Aged moves into BA01/OAK01
 - 2. Dry Hop/Dry Spice stays in FVxx
11. Click <**Write to PdO Wizard**>

Write to PdO Wizard **Cancel**



Production Order Creation Wizard

Build Production Run

| Run | ItemCode | ItemName | Turns | Qty | ProdDate | DueDate | Start Time | Process | FromWhs | ToWhs | Batch# | POStatus | Interval... | |
|-----|----------|----------|-------------------|------|----------|------------|------------|---------|--------------|-------|--------|----------------|-------------|-----|
| 1 | 1 | W1003 | Wort - IPA | 2 | 30.00 | 09/14/2016 | 09/14/2016 | 09:28 | Brewing | A1 | BH01 | IPA150Training | Planned | ▼ 0 |
| 2 | 1 | GB1003 | Green Beer - IPA | 1 | 60.00 | 09/14/2016 | 09/21/2016 | 09:28 | Fermentation | BH01 | F15 | IPA150Training | Planned | ▼ 0 |
| 3 | 1 | DH1003 | Dry Hopped Beer | 1 | 60.00 | 09/21/2016 | 09/27/2016 | 09:28 | Dry Hopping | F15 | F15 | IPA150Training | Planned | ▼ 0 |
| 4 | 1 | BB1003 | Bright Beer - IPA | 1 | 54.00 | 09/27/2016 | 09/28/2016 | 09:28 | Filtration | F15 | B15 | IPA150Training | Planned | ▼ 0 |
| | | | | 0.00 | | | | | | | | | | |

Preview Cancel

Set All Status To: Released Planned

- a. Use 'Set All Status To' dropdown to choose Released
12. Click <Preview>

Production Order Creation Wizard

Order Creation Preview

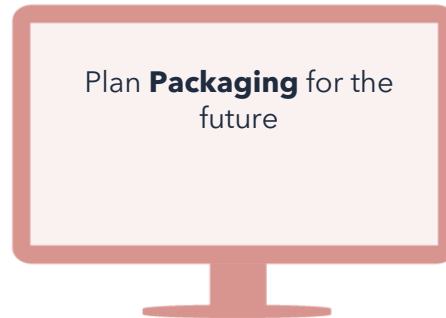
| | ItemCode | ItemName | Qty | ProdDate | DueDate | Process | FromWhse | ToWhse | PO Status | Batch# | StartTime |
|---|----------|-----------------------|-------|------------|------------|--------------|----------|--------|-----------|----------------|-----------|
| 1 | W1003 | Wort - IPA | 30.00 | 09/14/2016 | 09/14/2016 | Brewing | A1 | BH01 | Released | IPA150Training | 09:28 |
| 2 | W1003 | Wort - IPA | 30.00 | 09/14/2016 | 09/14/2016 | Brewing | A1 | BH01 | Released | IPA150Training | 09:28 |
| 3 | GB1003 | Green Beer - IPA | 60.00 | 09/14/2016 | 09/21/2016 | Fermentation | BH01 | F15 | Released | IPA150Training | 09:28 |
| 4 | DH1003 | Dry Hopped Beer - IPA | 60.00 | 09/21/2016 | 09/27/2016 | Dry Hopping | F15 | F15 | Released | IPA150Training | 09:28 |
| 5 | BB1003 | Bright Beer - IPA | 54.00 | 09/27/2016 | 09/28/2016 | Filtration | F15 | B15 | Released | IPA150Training | 09:28 |

Create Cancel

13. Click <Create>
- a. Wait until ALL Production Orders disappear from the screen
- b. DO NOT click Create again
14. Click <Cancel> to close the PdO Creation Wizard function



Plan packaging for the future



Modules > Production > Automation > Packaging Run



1. Open Packaging Run
2. Enter the Source Item code
a. Ex. 'BB1001'

Packaging Run

Run Status: Planned

Source Item: [Search Field]

Source Item Name: [Text Field]

From Sources: [Add Pdo] [Add Whs]

| Pdo # | MPN | Warehouse | Batch | Batch Received | Available | In Stock | Assigned | Remaining |
|-------|-----|-----------|-------|----------------|-----------|----------|----------|-----------|
| 1 | | | | | | | | |

To Finished Good Production Orders:

| Pdo # | MPN | Status | Item Code | Item Name | Batch | Prod Date | Start Time | Due Date | From Whs | To Whs | Quantity | Volume Consumed | In Stock |
|-------|-----|--------|-----------|-----------|-------|-----------|------------|----------|----------|--------|----------|-----------------|----------|
| 1 | | | | | | | | | | | | | |

[Add] [Cancel]



3. Enter the Production Date (top right-hand of form)
4. Click <Add PdO>
5. Select the row (PdO)
 - a. This is a PdO for Brite Beer, so it represents the volume of liquid to be packaged

Packaging Run

Run Status:
Source Item:
Source Item Name:

From Sources:

| PdO # | MPN | Warehouse | Batch |
|-------|-----|-----------|-------|
| 1 | | | |

To Finished Good Production Orders:

| PdO # | MPN | Status | Item Code |
|-------|-----|---------|-----------|
| 1 | | Planned | 1001-B212 |
| 2 | | Planned | 1001-B46 |
| 3 | | Planned | 1001-K12 |
| 4 | | Planned | 1001-K16 |
| 5 | | Planned | 1001-KF |
| 6 | | | |

6. Double check the Warehouse information in the bottom grid
7. Enter in the QTY of finished goods to be produced (racked)
 - a. This can be for one or all the items shown in the bottom grid
 - b. Notice the volume consumed updates in the row, and in the header. Use this real-time calculation to split your volume as needed

Packaging Run

Run Status:
Source Item:
Source Item Name:

From Sources:

| PdO # | MPN | Warehouse |
|-------|-------|-----------|
| 1 | 10031 | B07 |
| 2 | | |

To Finished Good Production Orders:

| PdO # | MPN | Status | Item Code | Item Name | Batch | Prod Date | Start Time | Due Date | From Whs | To Whs | Quantity | Volume Consumed | In Stock | Min Stock | ATP | ATP Forecast |
|-------|-----|---------|-----------|------------------------------|-------|-----------|------------|----------|----------|--------|----------|-----------------|----------|-----------|--------|--------------|
| 1 | 8 | Planned | 1001-B212 | Amber Ale - Case 2/12/12 Btl | AMA1 | 05/03/17 | 1425 | 05/03/17 | B07 | A1 | 0 | 0.00 | 110.00 | 0.00 | 218.00 | 218.00 |
| 2 | 8 | Planned | 1001-B46 | Amber Ale - Case 4/6/12 Btl | AMA1 | 05/03/17 | 1425 | 05/03/17 | B07 | A1 | 0 | 0.00 | 876.00 | 0.00 | 542.00 | 542.00 |
| 3 | 8 | Planned | 1001-K12 | Amber Ale - Keg 1/2 BBL | AMA1 | 05/03/17 | 1425 | 05/03/17 | B07 | A1 | 20 | 10.00 | 51.00 | 0.00 | 39.00 | 59.00 |
| 4 | 8 | Planned | 1001-K16 | Amber Ale - Keg 1/6 BBL | AMA1 | 05/03/17 | 1425 | 05/03/17 | B07 | A1 | 60 | 10.00 | 0.00 | 0.00 | 0.00 | 60.00 |
| 5 | 8 | Planned | 1001-KF | Amber Ale - Firkin | AMA1 | 05/03/17 | 1425 | 05/03/17 | B07 | A1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | | | | | | | | | | | | | | | | |



Packaging Run

Run Status:

Source Item:

Source Item Name:

From Sources:

| | PdO # | MPN | Warehouse | Batch | Batch |
|---|------------------------------------|-----|----------------------------------|-----------------------------------|-------|
| 1 | <input type="text" value="10031"/> | 8 | <input type="text" value="B07"/> | <input type="text" value="AMA1"/> | |
| 2 | | | | | |
| | | | | | |
| | | | | | |

To Finished Good Production Orders:

| | PdO # | MPN | Status | Item Code | Item Name | Batch | Pr |
|---|-------|--------------------------------|---------|--|------------------------------|-----------------------------------|----|
| 1 | | 8 | Planned | <input type="text" value="1001-B212"/> | Amber Ale - Case 2/12/12 Btl | <input type="text" value="AMA1"/> | 05 |
| 2 | | 8 | Planned | <input type="text" value="1001-B46"/> | Amber Ale - Case 4/6/12 Btl | <input type="text" value="AMA1"/> | 05 |
| 3 | | 8 | Planned | <input type="text" value="1001-K12"/> | Amber Ale - Keg 1/2 BBL | <input type="text" value="AMA1"/> | 05 |
| 4 | | 8 | Planned | <input type="text" value="1001-K16"/> | Amber Ale - Keg 1/6 BBL | <input type="text" value="AMA1"/> | 05 |
| 5 | | <input type="text" value="8"/> | Planned | <input type="text" value="1001-KF"/> | Amber Ale - Firkin | <input type="text" value="AMA1"/> | 05 |
| 6 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

8. Click <Add>

You have now created Production Orders for your splits, all in one function!

Using the Production Run is the easiest way to handle planning our packaging splits!





Worksheets & expressing

Worksheets

What are they?

The ACTION!

Physical manifestation of the Production Order

What do they do?

Expresses (Creates) end product

Decrements and Increments inventory as Production occurs

Reflects inventory location, cost and loss in real time

Why use them?

Affects TTB

Impacts financials

Express

(Create)

Wort

Express

(Create)

**Green Beer/
Add'l Steps**

You will be
utilizing the 3
Worksheets to
do the
following:

Express

(Create)

Brite Beer

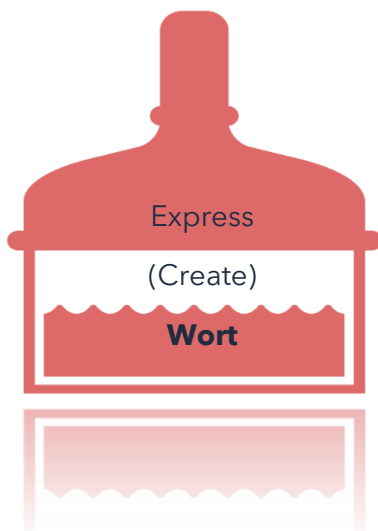
Express

(Create)

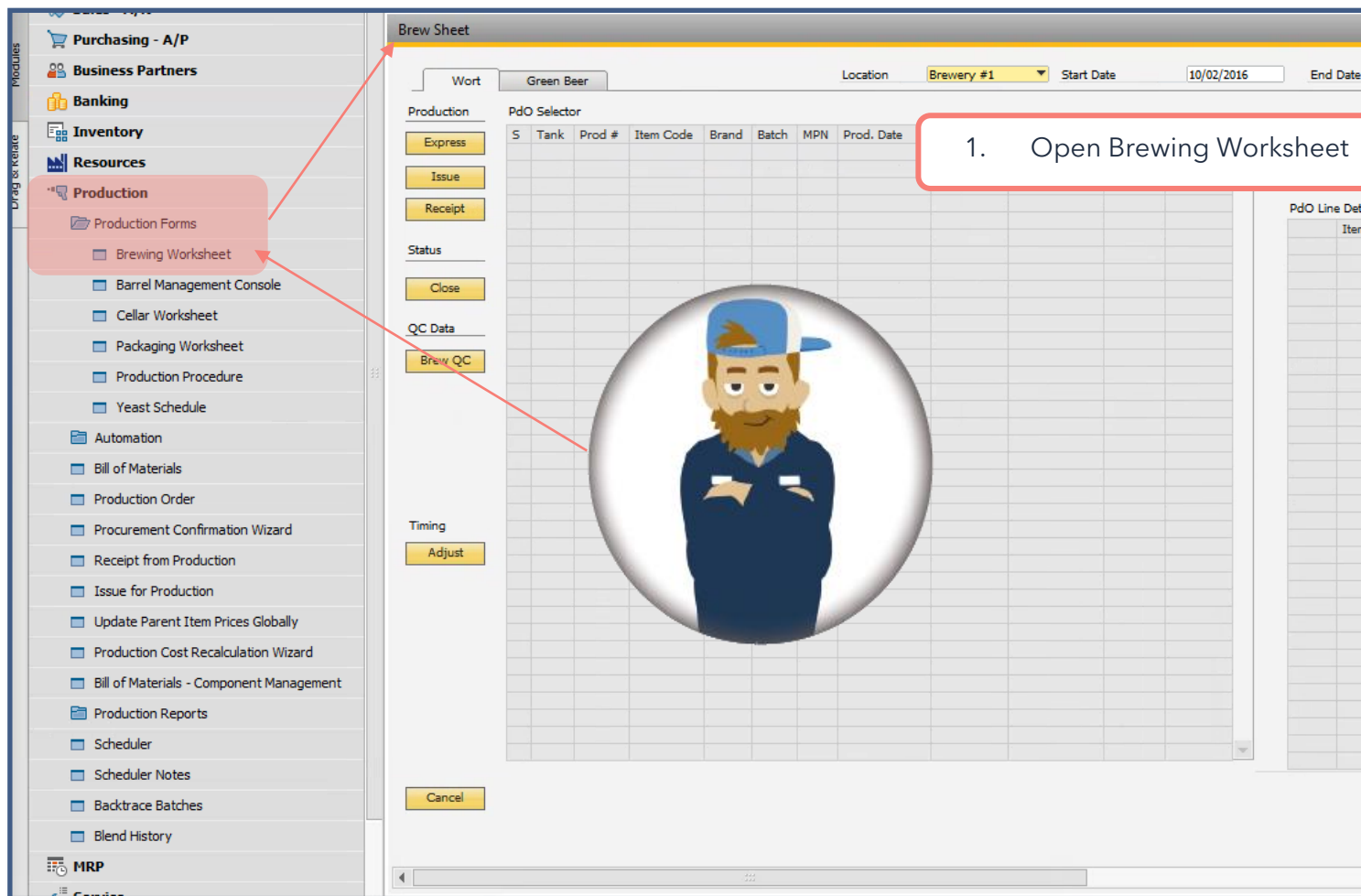
Packaging



Express wort



Modules > Production > Production Forms > Brewing Worksheet





Brew Sheet

Wort: Green Beer Location: Brewery #1 Start Date: 09/14/2016 End Date: 10/08/2016 Refresh Matrix Status: Released

Production

Express
Issue
Receipt

PdO Selector

| S | Tank | Prod # | Item Code | Brand | Batch | MPN | Prod. Date | Prod. Time | Plan Qty | ISSUED | RECE... |
|---|------|--------|-----------|-------|----------------|-----|------------|------------|----------|--------|---------|
| R | BH01 | 11544 | W1003 | IPA | IPA150Training | 222 | 09/14/2016 | 928 | 30.00 | | |
| R | BH01 | 11545 | W1003 | IPA | IPA150Training | 222 | 09/14/2016 | 928 | 30.00 | | |

Status

Close

QC Data

Brew QC

Timing

Adjust

Yeast TAG Yeast Crop Yeast Qty: 0

Yeast Tank Yeast Gen 0

PdO Line Details

| Item... | P.. | UoM | Item ... | Type | Prod... | Prod... | Stage | Timing |
|-------------|-----|-----|----------------------|------|----------|---------|----------|-------------------|
| RM5 1.00 lb | | | Malt 2-R RM: Malt lb | | 1,000.00 | | | |
| RM5 200. lb | | | Maris Ot RM: Malt lb | | 800.00 | | | |
| RM5 100. lb | | | Malt C-4 RM: Malt lb | | 200.00 | | 2nd stag | Add C-45 at 20min |
| RH5 50.0 lb | | | Hops - C RM: Hop lb | | 50.00 | | | |
| RH5 1.00 lb | | | Hops - C RM: Hop | | 0.00 | | | |

Brew Sheet

Wort: Green Beer

Production

Express
Issue
Receipt

PdO Selector

| S | Tank | Prod # | Item |
|---|------|--------|------|
| R | BH01 | 11544 | |
| R | BH01 | 11545 | |

Status

Close

2. Select Location
3. Select 'Start Date' & 'End Date' for the production orders you are ready to Express
4. Ensure 'Status' dropdown is set to Released
5. Click <**Refresh Matrix**>
6. Highlight the PdO for Wort you're ready to made by clicking the row
7. Click <**Express**>



UPPER SECTION:
What you're
making!

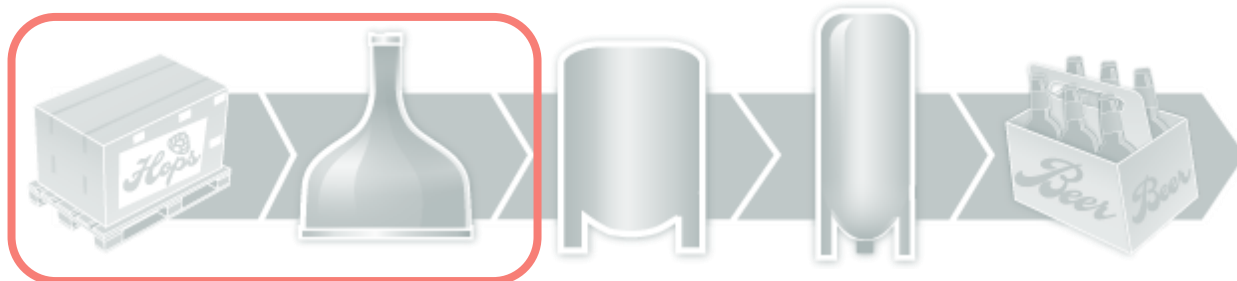
8. Enter 'Receive Qty'
9. Enter 'Initials'
10. Confirm 'Production Date'
11. In lower section (materials consumed) confirm quantity used of each individual item
 - a. The far right 'ActQty' column is where you will enter actual quantities you want taken out of inventory
12. Click <Process>

| | | | | | |
|------------------|----------------|-------------|-------|-----------------|------------|
| Production Order | 11544 | Planned Qty | 30 | Warehouse | BH01 |
| Product Code | W1003 | Receive Qty | 30.00 | Production Date | 09/14/2016 |
| Product Name | Wort - IPA | Variance | 0 | Due Date | 09/14/2016 |
| Batch ID | IPA150Training | Initials | seb | | |

| Item Code | Item Name | PlannedQty | WHse | ItemCode | BatchNumber | In Stock | In Date | ActQty |
|--------------|-------------------------|------------|------|----------|-------------|-----------|------------|--------|
| ▼ 01. RM5005 | Malt 2-Row Bulk | ▼ 1,000.00 | | | | | | |
| | | | A1 | RM5005 | LOT#4544 | 34,665.00 | 06/03/2015 | 500.00 |
| | | | A1 | RM5005 | LOT#5154 | 36,381.00 | 07/07/2015 | 500.00 |
| ▼ 02. RM5028 | Maris Otter supersack | ▼ 200.00 | | | | | | |
| | | | A1 | RM5028 | LOT#5245 | 5,990.00 | 07/07/2015 | 500.00 |
| ▼ 03. RM5024 | Malt C-45 | ▼ 100.00 | | | | | | |
| | | | A1 | RM5024 | LOT#5444 | 7,995.00 | 07/07/2015 | 100.00 |
| ▼ 04. RH5006 | Hops - Cascade | ▼ 50.00 | | | | | | |
| | | | A1 | RH5006 | LOT#8833 | 6,018.00 | 05/21/2015 | 50.00 |
| | | | A1 | RH5006 | LOT#7485 | 9,866.00 | 07/23/2015 | 0.00 |
| ▼ 05. RH5014 | Hops - German Tradition | ▼ 1.00 | | | | | | |
| | | | A1 | RH5014 | LOT#8741 | 790.00 | 04/06/2015 | 1.00 |

Process Cancel Refresh

LOWER SECTION: What you'll be
consuming during Production





Brew Sheet

Wort Green Beer Location Brewery #1 Start Date 09/14/2016

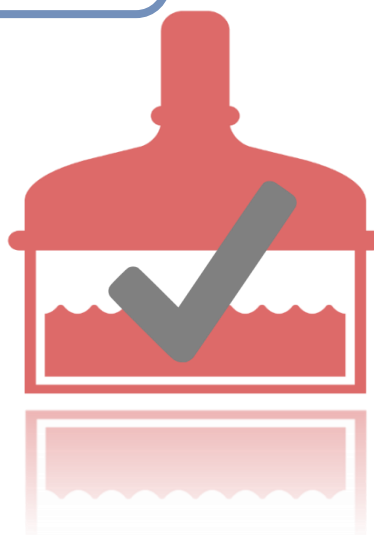
Production PdO Selector

Express Issue Receipt Status

| S | Tank | Prod # | Item Code | Brand | Batch | MPN | Prod. Date | Prod. Time | Plan Qty | ISSUED: | RECE... |
|---|------|--------|-----------|-------|----------------|-----|------------|------------|----------|-------------------------------------|-------------------------------------|
| R | BH01 | 11544 | W1003 | IPA | IPA150Training | 222 | 09/14/2016 | 928 | 30.00 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| R | BH01 | 11545 | W1003 | IPA | IPA150Training | 222 | 09/14/2016 | 928 | 30.00 | <input type="checkbox"/> | <input type="checkbox"/> |

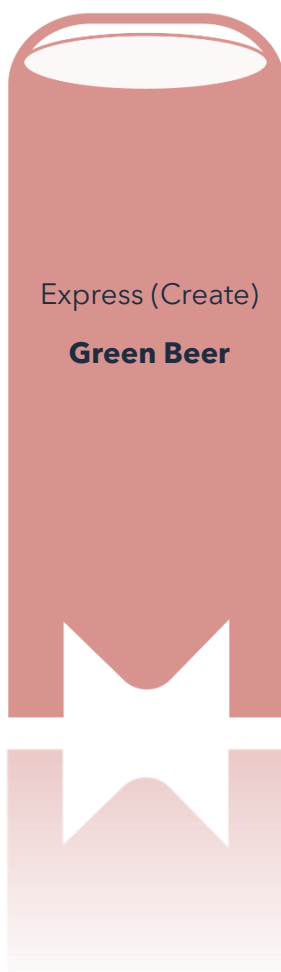
- PdO for 1 turn (30 BBLs) of Wort has been expressed on Brewing Worksheet
- Both 'Issued' & 'Receipt' boxes should be checked

Wort down, now on to Green Beer!





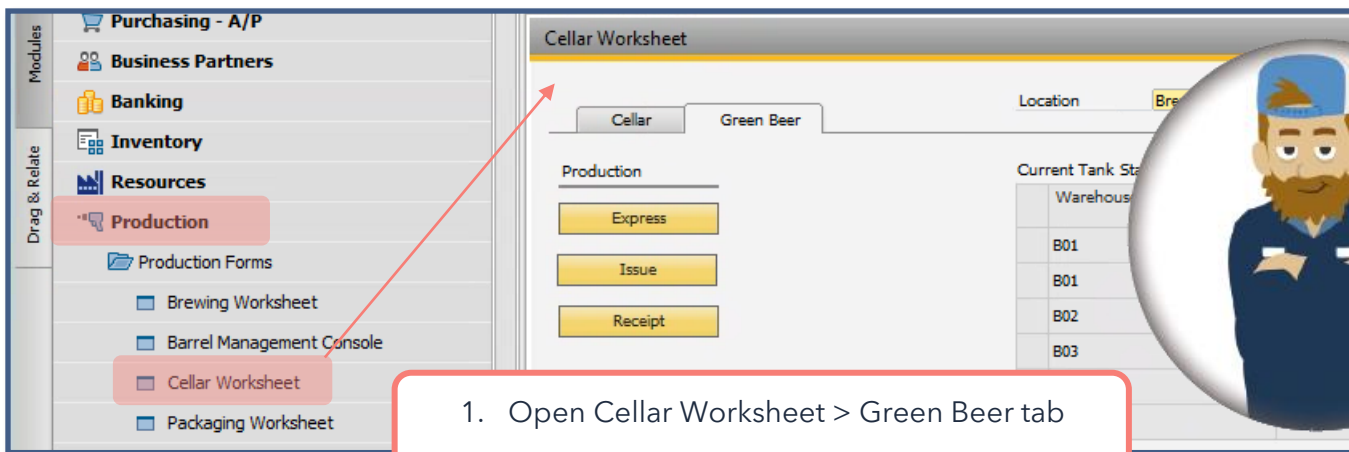
Express green beer



Modules > Production > Production Forms > Cellar Worksheet > Green Beer tab

or

Modules > Production > Production Forms > Brewing Worksheet > Green Beer tab





Cellar Worksheet

Cellar Green Beer

Location **Brewery #1** Start Date **09/14/2016** End Date **10/06/2016** Refresh Matrix Status **Released**

Production

Express

Issue

Receipt

Status

Create New

Close

QC Data

Ferm QC

Cancel

Current Tank Status :

| Warehouse | Item Code | Item Name | Volume | Batch | Days left | Batch Received |
|-----------|-----------|---------------------------|--------|----------|-----------|----------------|
| B01 | BB1003 | Bright Beer - IPA | 28.00 | IPA1495T | -14 | 09/21/2016 |
| B01 | BB1010 | Bright Beer - Oktoberfest | 173.50 | OKT100 | -583 | 03/03/2015 |
| B02 | BB1004 | Bright Beer - Stout | 78.30 | STT12 | -464 | 06/29/2015 |
| B03 | BB1012 | Bright Beer - Hefeweizen | 137.00 | HEF107 | -489 | 06/05/2015 |
| B04 | BB1001 | Bright Beer - Amber Ale | 123.43 | AMA41 | -476 | 06/17/2015 |
| B05 | BB1003 | Bright Beer - IPA | 194.93 | IPA130 | -483 | 06/10/2015 |

Current Production Orders :

| S | Batch | MPN | Production Order # | Style | Prod Date | Prod Time | Due Date | From Whse | To Whse | Planned Qty | Volume in Tank | Issued | Receipt |
|---|----------------|-----|--------------------|------------------|------------|-----------|------------|-----------|---------|-------------|----------------|--------------------------|--------------------------|
| R | IPA150Training | 222 | 11546 | Green Beer - IPA | 09/14/2016 | 928 | 09/21/2016 | BH01 | F15 | 60.00 | 330.00 | <input type="checkbox"/> | <input type="checkbox"/> |

Production Order Lines :

| Line Num | Item | Item Name | Whse | Qty | Qty In-stock in Whse |
|----------|-------|------------|------|-------|----------------------|
| 1 | W1003 | Wort - IPA | BH01 | 60.00 | 330.00 |

2. Select 'Location'
3. Select 'Start Date' & 'End Date' for the Production Orders you are ready to Express
4. Ensure 'Status' dropdown is set to Released
5. Click <**Refresh Matrix**>
6. Highlight to PdO for Green Beer you're ready to make by clicking the row
7. Click <**Express**>



8. Enter 'Receive Qty'
9. Enter 'Initials'
10. Confirm Production Date
11. In lower section (materials consumed) confirm quantity of Wort in the Brewhouse
 - a. Be sure to consume all of it so no residual is left in your tank (ActQty needs to equal true, in-stock amount of Wort)
12. Click <Process>

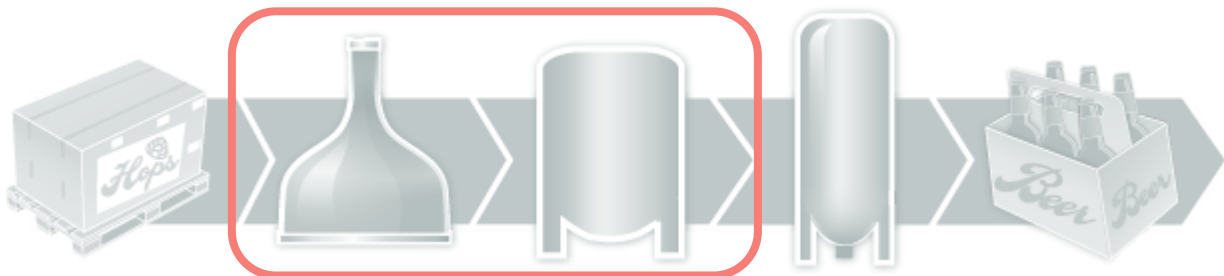
UPPER SECTION:
What you're making!

| | | | | | |
|------------------|------------------|-------------|-------|-----------------|------------|
| Production Order | 11546 | Planned Qty | 60 | Warehouse | F15 |
| Product Code | GB1003 | Receive Qty | 60.00 | Production Date | 09/14/2016 |
| Product Name | Green Beer - IPA | Variance | 0 | Due Date | 09/21/2016 |
| Batch ID | IPA150Training | Initials | seb | | |

| Item Code | Item Name | PlannedQty | WHse | ItemCode | BatchNumber | In Stock | In Date | ActQty |
|-------------|------------|------------|------|----------|--------------------|----------|------------|--------|
| ▼ 01. W1003 | Wort - IPA | ▼ 60.00 | | | | | | |
| | | | BH01 | W1003 | IPA141 | 30.00 | 08/13/2015 | 30.00 |
| | | | BH01 | W1003 | IPA143 | 30.00 | 08/20/2015 | 30.00 |
| | | | BH01 | W1003 | IPA144 | 30.00 | 08/27/2015 | 0.00 |
| | | | BH01 | W1003 | IPA145 | 60.00 | 09/08/2015 | 0.00 |
| | | | BH01 | W1003 | IPA147 | 60.00 | 09/16/2015 | 0.00 |
| | | | BH01 | W1003 | IPA1485Btest091516 | 60.00 | 09/01/2016 | 0.00 |
| | | | BH01 | W1003 | IPA150Training | 60.00 | 09/14/2016 | 0.00 |

Process Cancel Refresh

LOWER SECTION: What you'll be
consuming during Production





Cellar Worksheet

Location: **Brewery #1** Start Date: **09/14/2016** End Date: **10/06/2016** Refresh Matrix Status: **Released**

Green Beer

Production

Express

Issue

Receipt

Status

Create New

Close

QC Data

Ferm QC

Cancel

Current Tank Status :

| Warehouse | Item Code | Item Name | Volume | Batch | Days Left | Batch Received |
|-----------|-------------|-----------------------|--------|----------------|-----------|----------------|
| F13 | GB1002 | Green Beer - Pale Ale | 45.00 | PAL36 | -431 | 07/22/2015 |
| F14 | --(Empty)-- | | 0.00 | | | |
| F15 | GB1003 | Green Beer - IPA | 60.00 | IPA150Training | -15 | 09/14/2016 |
| F16 | --(Empty)-- | | 0.00 | | | |
| F17 | --(Empty)-- | | 0.00 | | | |
| F18 | --(Empty)-- | | 0.00 | | | |

Current Production Orders :

| S | Batch | MPN | Production Order # | Style | Prod Date | Prod Time | Due Date | From Whse | To Whse | Planned Qty | Volume in Tank | Issued | Receipt |
|---|----------------|-----|--------------------|------------------|------------|-----------|------------|-----------|---------|-------------|----------------|-------------------------------------|-------------------------------------|
| R | IPA150Training | 222 | 11546 | Green Beer - IPA | 09/14/2016 | 928 | 09/21/2016 | BH01 | F15 | 60.00 | 270.00 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Production Order Lines :

| Line Num | Item | Item Name | Whse | Qty | Qty In-stock in Whse |
|----------|------|-----------|------|-----|----------------------|
|----------|------|-----------|------|-----|----------------------|

- a. PdO for Green Beer has now been expressed on the Cellar Worksheet > Green Beer tab
 - b. Both 'Issued' & 'Receipt' boxes should be checked
13. Current Tank Status
- a. Should now reflect Green Beer sitting in the correct Warehouse (Fermenter)

Green Beer down! Now on to Additional Steps!





Express additional steps

Express (Create)

**Additional
Steps***

Modules > Production > Production Forms > Cellar Worksheet > Cellar tab

*Any additional steps (i.e. Dry Hop, Fruited, Barrel Aged) will be Expressed in the exact same manner as Green Beer & Brite Beer. Follow the previous or following instructions for your additional step! You will begin from the Cellar tab of the Cellar Worksheet.

Got it! Now on to
Expressing Brite
Beer!





Express brite beer



Modules > Production > Production Forms > Cellar Worksheet > Cellar tab

1. Open Cellar Worksheet > Cellar tab



Cellar Worksheet

Cellar Green Beer

Location **Brewery #1** Start Date **09/14/2016** End Date **10/06/2016** Refresh Matrix Status **Released**

Production

Express

Issue

Receipt

Status

Create New

Close

QC Data

Firm QC

Cancel

Current Tank Status :

| Warehouse | Item Code | Item Name | Volume | Batch | Days Left | Batch Received |
|-----------|-----------|---------------------------|--------|----------|-----------|----------------|
| B01 | BB1003 | Bright Beer - IPA | 28.00 | IPA149ST | -14 | 09/21/2016 |
| B01 | BB1010 | Bright Beer - Oktoberfest | 173.50 | OKT100 | -583 | 03/03/2015 |
| B02 | BB1004 | Bright Beer - Stout | 78.30 | STT12 | -464 | 06/29/2015 |
| B03 | BB1012 | Bright Beer - Hefeweizen | 137.00 | HEF107 | -489 | 06/05/2015 |
| B04 | BB1001 | Bright Beer - Amber Ale | 123.43 | AMA41 | -476 | 06/17/2015 |
| B05 | BB1003 | Bright Beer - IPA | 194.93 | IPA130 | -483 | 06/10/2015 |

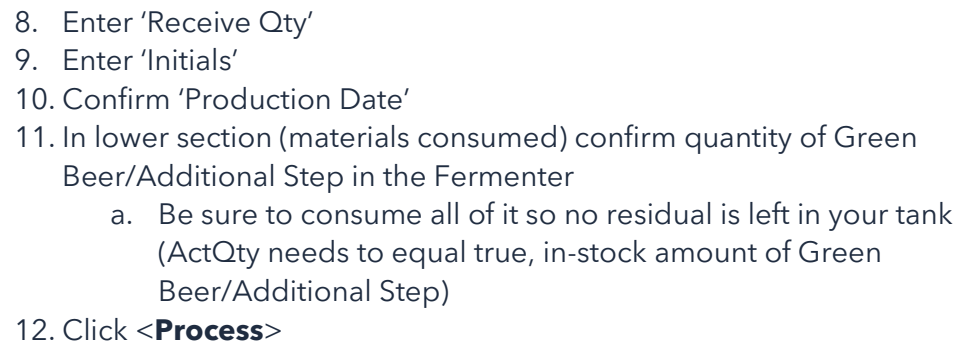
Current Production Orders :

| S | Batch | MPN | Production Order # | Style | Prod Date | Prod Time | Due Date | From Whse | To Whse | Planned Qty | Volume in Tank | Issued | Receipt |
|---|----------------|-----|--------------------|-----------------------|------------|-----------|------------|-----------|---------|-------------|----------------|-------------------------------------|-------------------------------------|
| R | IPA150Training | 222 | 11547 | Dry Hopped Beer - IPA | 09/21/2016 | 928 | 09/27/2016 | F15 | F15 | 60.00 | 0.00 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| R | IPA150Training | 222 | 11548 | Bright Beer - IPA | 09/27/2016 | 928 | 09/28/2016 | F15 | B15 | 54.00 | 60.00 | <input type="checkbox"/> | <input type="checkbox"/> |

Production Order Lines :

| Line Num | Item | Item Name | Whse | Qty | Qty In-stock in Whse |
|----------|--------|-----------------------|------|-------|----------------------|
| 1 | DH1003 | Dry Hopped Beer - IPA | F15 | 60.00 | 60.00 |

2. Select 'Location'
3. Select 'Start Date' & 'End Date' for the Production Orders you are ready to Express
4. Ensure 'Status' dropdown is set to Released
5. Click <**Refresh Matrix**>
6. Highlight the PdO for Brite Beer you're ready to make by clicking the row
7. Click <**Express**>

[illegible]



Cellar Worksheet

Location: **Brewery #1** Start Date: **09/14/2016** End Date: **10/06/2016** Refresh Matrix Status: **Released**

Production

Express Issue Receipt

Status

Create New Close

QC Data

Ferm QC

Cancel

Current Tank Status :

| Warehouse | Item Code | Item Name | Volume | Batch | Days Left | Batch Received |
|-----------|-----------|-----------------------------|--------|----------------|-----------|----------------|
| B10 | BB1011 | Bright Beer - Red Irish Ale | 105.00 | RIA103 | -543 | 04/12/2015 |
| B11 | BB1014 | Bright Beer - Pumpkin | 200.00 | PUM100 | -543 | 04/12/2015 |
| B12 | BB1008 | Bright Beer - Pilsner | 133.12 | PIL8 | -488 | 06/06/2015 |
| B13 | BB1002 | Bright Beer - Pale Ale | 40.00 | PAL32 | -484 | 06/09/2015 |
| B14 | BB1015 | Bright Beer - Cider | 100.00 | CDR100 | -461 | 07/03/2015 |
| B15 | BB1003 | Bright Beer - IPA | 54.00 | IPA150Training | -8 | 09/27/2016 |

Current Production Orders :

| S | Batch | MPN | Production Order # | Style | Prod Date | Prod Time | Due Date | From Whse | To Whse | Planned Qty | Volume in Tank | Issued | Receipt |
|---|----------------|-----|--------------------|-----------------------|------------|-----------|------------|-----------|---------|-------------|----------------|-------------------------------------|-------------------------------------|
| R | IPA150Training | 222 | 11547 | Dry Hopped Beer - IPA | 09/21/2016 | 928 | 09/27/2016 | F15 | F15 | 60.00 | 0.00 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| R | IPA150Training | 222 | 11548 | Bright Beer - IPA | 09/27/2016 | 928 | 09/28/2016 | F15 | B15 | 54.00 | 0.00 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Production Order Lines :

| Line Num | Item | Item Name | Whse | Qty | Qty In Stock in Whse |
|----------|------|-----------|------|-----|----------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

a. PdO for Brite Beer has now been expressed on Cellar Worksheet

b. Both 'Issued' & 'Receipt' boxes should be checked

13. Current Tank Status

- Should now reflect Brite Beer sitting in the correct Warehouse (Brite Tank)

Cool! Expressing works the same way for each step! Now, how about Packaging?





Plan packaging based on brite beer in the tank

Modules > Production > Production Forms > Packaging Worksheet

Packaging Worksheet

Location: Main Brewery Status: Released Start Date: 05/03/16 End Date: 05/03/17 Refresh Matrix

Current Tank Status:

| Whse | Run # | Item Code | Item Name | Volume | Batch | Batch Received |
|------|-------|-----------|-------------------------|--------|-------------|----------------|
| B01 | | | --{Empty}-- | 0.000 | | |
| B02 | | | --{Empty}-- | 0.000 | | |
| B03 | | BB1001 | Bright Beer - Amber Ale | 30.000 | 45679-Batch | 05/03/17 |
| B04 | | | --{Empty}-- | 0.000 | | |
| B05 | | | --{Empty}-- | 0.000 | | |
| B06 | | | --{Empty}-- | 0.000 | | |
| B07 | | | --{Empty}-- | 0.000 | | |
| B08 | | | --{Empty}-- | 0.000 | | |

Current Production Orders:

| S | Batch | MPN | Production Order # | Prod Date | Prod Time | Style | Warehouse | UoM | Planned Qty | Completed Qty | Issued | Received | Remark |
|---|-------|-----|--------------------|-----------|-----------|------------------------------|-----------|-----|-------------|---------------|--------|----------|--------|
| R | AMA2 | 11 | 10060 | 03/01/17 | 4:01PM | Amber Ale - Case 2/12/12 Btl | A1 | EA | 230.000 | 230.000 | | | |
| R | AMA | | | | | | | | | | | | |

Copy
Copy Table
Maximize/Restore Grid
Filter Table
Create Packaging Run
Add Adjuncts

2. From the 'Current Tank Status' table, highlight the tank (batch of brite beer) that you want to pack
3. Right Click > Create Packaging Run

Packaging Run

Run Status: Planned
Source Item: BB1001
Source Item Name: Bright Beer - Amber Ale

From Sources:

| PdO # | MPN | Warehouse | Batch | Batch Received | Available | In Stock | Assigned | Remaining |
|-------|-----|-----------|-------------|----------------|-----------|----------|----------|-----------|
| 1 | | B03 | 45679-Batch | 05/03/17 | 30.00 | 30.00 | 25.83 | 4.17 |
| 2 | | | | | | | 0.00 | 0.00 |
| | | | | | 30.00 | 30.00 | 25.83 | 4.17 |

To Finished Good Production Orders:

| PdO # | MPN | Status | Item Code | Item Name | Batch | Prod Date | Start Time | Due Date | From Whs | To Whs | Quantity | Volume Consumed | In Stock | Min Stock | ATP | ATP Forecast |
|-------|-----|---------|-----------|------------------------------|-------------|-----------|------------|----------|----------|--------|----------|-----------------|----------|-----------|-------|--------------|
| 1 | | Planned | 1001-B212 | Amber Ale - Case 2/12/12 Btl | 45679-Batch | 05/03/17 | 1508 | 05/03/17 | B03 | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | | Planned | 1001-B46 | Amber Ale - Case 4/6/12 Btl | 45679-Batch | 05/03/17 | 1508 | 05/03/17 | B03 | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | | Planned | 1001-K12 | Amber Ale - Keg 1/2 BBL | 45679-Batch | 05/03/17 | 1508 | 05/03/17 | B03 | a1 | 45 | 22.50 | 51.00 | 0.00 | 39.00 | 84.00 |
| 4 | | Planned | 1001-K16 | Amber Ale - Keg 1/6 BBL | 45679-Batch | 05/03/17 | 1508 | 05/03/17 | B03 | a1 | 30 | 3.33 | 0.00 | 0.00 | 0.00 | 20.00 |
| 5 | | Planned | 1001-KF | Amber Ale - Firkin | 45679-Batch | 05/03/17 | 1508 | 05/03/17 | B03 | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | | | | | | | | | | | | | | | | |

Add Cancel

3. Enter the Production Date (top right of form)
4. Verify the 'To Whs' column
5. Enter in the QTY of finished goods to be produced
 - a. This can be for one or all the items shown in the bottom grid
 - b. Notice the volume consumed updates in the row, and in the header. Use this real-time calculation to split your volume as needed
6. Click <Add>



Express packaging



Modules > Production > Production Forms > Packaging Worksheet

Packaging Worksheet

Location: [Dropdown] **Create New**

Production

Express **Issue** **Receipt**

Status [Dropdown]

| Whse | Current Tar |
|------|-------------|
| B01 | |
| B01 | |
| B02 | BB1004 |
| B03 | BB1012 |
| B04 | BB1001 |
| B05 | BB1003 |
| B06 | BB1005 |
| B07 | BB1009 |

Current Production Orders :

| S | Batch | MPN |
|---|----------------|-----|
| R | | 0 |
| R | IPA150Training | 0 |
| R | IPA150Training | 0 |

1. Open Packaging Worksheet



Packaging Worksheet

Location: Brewery #1 Start Date: 09/16/2015 End Date: 10/06/2016 Refresh Matrix Status: Released

Current Tank Status :

| Whse | Item Code | Item Name | Volume | Batch | Batch Received |
|------|-----------|---------------------------------|--------|----------|----------------|
| B01 | BB1003 | Bright Beer - IPA | 28.00 | IPA149ST | 09/21/2016 |
| B01 | BB1010 | Bright Beer - Oktoberfest | 173.50 | OKT100 | 03/03/2015 |
| B02 | BB1004 | Bright Beer - Stout | 78.30 | STT12 | 06/29/2015 |
| B03 | BB1012 | Bright Beer - Hefeweizen | 137.00 | HEF107 | 06/05/2015 |
| B04 | BB1001 | Bright Beer - Amber Ale | 123.43 | AMA41 | 06/17/2015 |
| B05 | BB1003 | Bright Beer - IPA | 194.93 | IPA130 | 06/10/2015 |
| B06 | BB1005 | Bright Beer - Portlandia Porter | 100.00 | POR104 | 07/20/2015 |
| B07 | BB1009 | Bright Beer - Blonde | 53.00 | BLD9 | 04/06/2015 |

Current Production Orders :

| S | Batch | MPN | Production Order # | Prod Date | Prod Time | Style | Warehouse | UoM | Planned Qty | Completed Qty | Issued | Received | Remarks |
|---|-------|-------|--------------------|------------|-----------|-------------------------|-----------|-----|-------------|---------------|--------------------------|--------------------------|---------|
| R | STT13 | 199 | 11411 | 10/01/2015 | 08:00 | Stout - Keg 1/2 BBL | A1 | EA | 500.00 | 0.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| R | STT13 | 199 | 11448 | 10/01/2015 | 08:00 | Stout - Case 4/6/12 Btl | A1 | EA | 1,000.00 | 0.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| R | 0 | 11549 | 11549 | 09/28/2016 | 13:48 | IPA - Keg 1,2 BBL | A1 | EA | 58.00 | 0.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| R | 0 | 11550 | 11550 | 10/06/2016 | 11:40 | IPA - Keg 1,2 BBL | A1 | EA | 30.00 | 0.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| R | 0 | 11551 | 11551 | 10/06/2016 | 11:40 | IPA - Keg 1,6 BBL | A1 | EA | 30.00 | 0.00 | <input type="checkbox"/> | <input type="checkbox"/> | |

Production Order Lines :

| Line Num | Item Code | Item Name | Warehouse | UoM | Planned Qty | Qty In Stock |
|----------|-----------|--------------------|-----------|-----|-------------|--------------|
| 1 | BB1003 | Bright Beer - IPA | F15 | BBL | 15.00 | 54.00 |
| 2 | PG5005 | Keg Shell - 1/2bbl | A1 | EA | 30.00 | 5,549.00 |
| 3 | PG5007 | Keg Cap | A1 | EA | 30.00 | 100,113.00 |

Buttons: Create New, Express, Issue, Receipt, Close, Packaging QC, Air Test, Volumes, Cancel

2. Select 'Location'
3. Select 'Start Date' & 'End Date' for the Production Orders you are ready to Express
4. Ensure 'Status' dropdown is set to Released
5. Click <Refresh Matrix>
6. Highlight the PdO for Packaged Goods you're ready to fulfill by clicking the row
7. Click <Express>



Express Production

Production Order: 11550
Product Code: 1003-K12
Product Name: IPA - Keg 1/2 BBL
Batch ID: IPA150Training

Planned Qty: 30
Receive Qty: 30.00
Variance: 0
Initials: sebl

Warehouse: A1
Production Date: 10/06/2016
Due Date: 10/06/2016

| Item Code | Item Name | PlannedQty | WHse | ItemCode | BatchNumber | In Stock | In Date | ActQty |
|------------|--------------------|------------|------|----------|----------------|----------|------------|--------|
| 01. BB1003 | Bright Beer - IPA | 15.00 | B15 | BB1003 | IPA150Training | 54.00 | 09/27/2016 | 15.00 |
| 02. PG5005 | Keg Shell - 1/2bbl | 30.00 | A1 | PG5005 | | 5,549.00 | | 30.00 |
| 03. PG5007 | Keg Cap | 30.00 | A1 | PG5007 | | | | 30.00 |

Process Cancel

Refresh

8. Enter 'Receive Qty'
9. Enter 'Initials'
10. Confirm 'Production Date'
11. In lower section (materials consumed) confirm quantity of Brite Beer in the Brite Tank
a. Be sure to consume all of it so no residual is left in your tank (ActQty needs to equal true, in-stock amount of Brite Beer)
12. Click <Process>

If packaging multiple items, express the next PdO that needs to be fulfilled

Express Production

Production Order: 11551
Product Code: 1003-K16
Product Name: IPA - Keg 1/6 BBL
Batch ID: IPA150Training

Planned Qty: 30
Receive Qty: 30.00
Variance: 0
Initials: sebl

| Item Code | Item Name | PlannedQty | WHse | ItemCode | BatchNumber | In Stock | In Date | ActQty |
|------------|--------------------|------------|------|----------|----------------|------------|------------|--------|
| 01. BB1003 | Bright Beer - IPA | 5.00 | B15 | BB1003 | IPA150Training | 39.00 | 09/27/2016 | 5.00 |
| 02. PG5006 | Keg Shell - 1/6bbl | 30.00 | A1 | PG5006 | | 996,562.00 | | 30.00 |
| 03. PG5007 | Keg Cap | 30.00 | A1 | PG5007 | | 100,083.00 | | 30.00 |

Process Cancel

Process flow diagram: Hops → Fermentation Tank → Lagering Tank → Kegging → Beer



- a. PdO(s) for Packaged Goods have now been expressed on Packaging Worksheet
 - b. Both 'Issued' & 'Receipt' boxes should be checked
13. Current Tank Status
- a. Should now reflect Brite Beer removed/decremented from previous Warehouse (Brite Tank)

Packaging Worksheet

Location: Brewery #1 Start Date: 09/16/2015 End Date: 10/06/2016 Refresh Matrix Status: Released

Current Tank Status:

| Whse | Item Code | Item Name | Volume | Batch | Batch Received |
|------|-----------|-----------------------------|--------|----------------|----------------|
| B10 | BB1011 | Bright Beer - Red Irish Ale | 105.00 | RIA103 | 04/12/2015 |
| B11 | BB1014 | Bright Beer - Pumpkin | 200.00 | PUM100 | 04/12/2015 |
| B12 | BB1008 | Bright Beer - Pilsner | 133.12 | PIL8 | 06/06/2015 |
| B13 | BB1002 | Bright Beer - Pale Ale | 40.00 | PA132 | 06/09/2015 |
| B14 | BB1015 | Bright Beer - Cider | 100.00 | CDR100 | 07/03/2015 |
| B15 | BB1003 | Bright Beer - IPA | 34.00 | IPA150Training | 09/27/2016 |
| B15 | BB1007 | Bright Beer - Xmas Stout | 154.00 | XMS100 | 06/28/2015 |
| B16 | BB1004-N | Bright Beer - Stout (Nitro) | 300.00 | STT104N | 07/27/2015 |

Current Production Orders:

| S | Batch | MPN | Production Order # | Prod Date | Prod Time | Style | Warehouse | UoM | Planned Qty | Completed Qty | Issued | Received | Remarks |
|---|----------------|-----|--------------------|------------|-----------|-------------------------|-----------|-----|-------------|---------------|-------------------------------------|-------------------------------------|---------|
| R | STT13 | 199 | 11411 | 10/01/2015 | 08:00 | Stout - Keg 1/2 BBL | A1 | EA | 500.00 | 0.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| R | STT13 | 199 | 11448 | 10/01/2015 | 08:00 | Stout - Case 4/6/12 BBL | A1 | EA | 1,000.00 | 0.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| R | | 0 | 11549 | 09/28/2016 | 13:48 | IPA - Keg 1/2 BBL | A1 | EA | 58.00 | 0.00 | <input type="checkbox"/> | <input type="checkbox"/> | |
| R | IPA150Training | 0 | 11550 | 10/06/2016 | 11:40 | IPA - Keg 1/2 BBL | A1 | EA | 30.00 | 30.00 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| R | IPA150Training | 0 | 11551 | 10/06/2016 | 11:40 | IPA - Keg 1/6 BBL | A1 | EA | 30.00 | 30.00 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |

Production Order Lines:

Buttons: Express, Issue, Receipt, Close, Packaging QC, Air Test, Volumes, Cancel



Nice!
Expressing
Pro-Status!