

# MB-320<sup>Q&As</sup>

Microsoft Dynamics 365 Supply Chain Management, Manufacturing

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**QUESTION 1**

**HOTSPOT**

You are a manufacturing consultant helping a client test out different bill of material (BOM) and route consumption options when starting production orders. Material and labor consumption are to be completed before Report as finish.

You are running a production order with BOM lines that have a Flushing principle set to Start. The Automatic Route Consumption Runtime has been set to Yes.


You have set up the default Start user options for all production orders as shown in the exhibit below.

### Set up start

Use on selected orders

#### START

Date

12/18/2018 

Start production

Yes

References

No

#### ROUTE CARD JOURNAL

Route card

Route 

Automatic route consumption

Always 

Post route card now

Yes

End-mark route

No

Make default for all users

#### JOURNALS

Show journal info

Yes

#### PICKING LIST JOURNAL

Picking list

Pick 

Automatic BOM consumption

Flushing principle 

Create journal per



Post picking list now

No

Physical reduction

No

Complete picking list journal

Yes

End-mark picking list

Yes

Pick negative

No

Print picking list

No

Print options

Hot Area:

## Answer Area

Based on the settings in Route Card Journal area, what will happen when the production order is started?

	▼
A route card that includes only hours is posted	
A route card that only includes hours and good quantities is posted	
An unposted route card is posted. Hours and quantities are blank	

Based on the settings in the Picking list journal area, what will happen when the production order is started?

	▼
A picking list is posted with consumption quantities entered and end selected	
An unposted picking list is created with consumption quantities filled in for all lines and end selected	
An unposted picking list is created with consumption quantities blank and end selected	

Correct Answer:

## Answer Area

Based on the settings in Route Card Journal area, what will happen when the production order is started?

	▼
A route card that includes only hours is posted	
A route card that only includes hours and good quantities is posted	
An unposted route card is posted. Hours and quantities are blank	

Based on the settings in the Picking list journal area, what will happen when the production order is started?

	▼
A picking list is posted with consumption quantities entered and end selected	
An unposted picking list is created with consumption quantities filled in for all lines and end selected	
An unposted picking list is created with consumption quantities blank and end selected	

**QUESTION 2**

A company that uses Lean manufacturing concepts to produce paper plates has redesigned the layout of the warehouse and production floor.

The company's production flow activities no longer match the tasks of the workers. Employees use paper and manual communication to complete the tasks.

You need to update the production flows to match their current processes by deactivating the obsolete production flows and creating new ones.

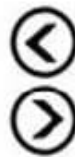
Which five actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

**Actions**

- Deactivate production flow version
- Create a new production flow version
- Close all active Kanbans
- Create and relate activities for a production flow version
- Activate production flow version
- Define product quantities and Kanban quantities
- Create Kanban rules
- Configure events

**Answer Area**



Correct Answer:

**Actions**

Close all active Kanbans
Define product quantities and Kanban quantities
Configure events



**Answer Area**

Deactivate production flow version
Create a new production flow version
Create and relate activities for a production flow version
Create Kanban rules
Activate production flow version

**QUESTION 3**

**HOTSPOT**

A specialty nutritional supplement manufacturer that produces vitamins uses Dynamics 365 Supply Chain Management. The vitamins are configured as a single product but have multiple sellable variations by volume.

Multiple vendors send bulk raw ingredients to the manufacturer on a quarterly basis.

The vendors own the raw ingredients until the manufacturer receives an order from a distributor for a product. The manufacturer then must own the raw ingredients to be able to process the vendor invoice and provide payments for the required amounts of the raw ingredients.

Any remaining raw ingredients that are unsold and at the end of their shelf life must be removed from storage and shipped back to the vendors.

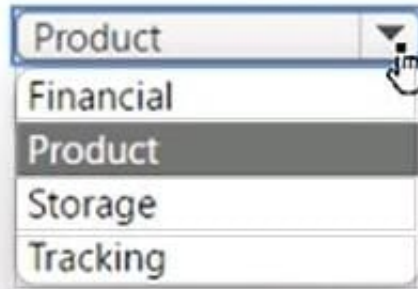
You need to configure the raw ingredients to meet the requirements.

Hot Area:

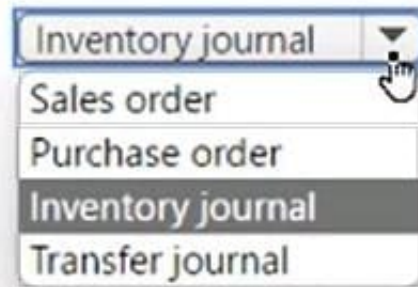
**Requirement**

Select the dimension type.

**Configuration**



Change the ownership.

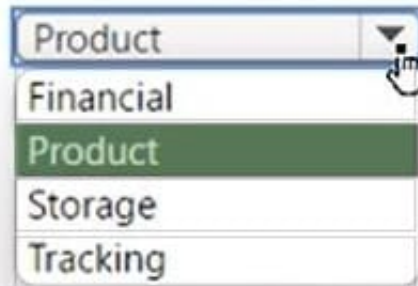


Correct Answer:

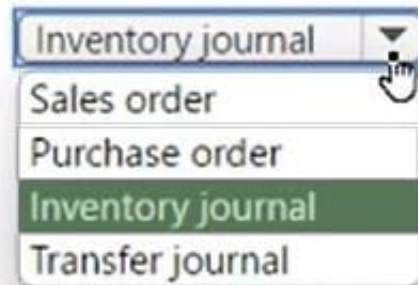
**Requirement**

Select the dimension type.

**Configuration**



Change the ownership.



**QUESTION 4**

A company plans to use master planning in Dynamics 365 Supply Chain Management. The company will sell items between legal entities.

The company has several facilities across legal entities that can manufacture the same products- Some products are produced only in some plants. To meet product demand, when one facility rs over capacity, another facility is used to fulfill the downstream demand.

The organizational entities are: Legal Entity A: Plant 1,2, and 3 Legal Entity B: Plant 4 and S Legal Entity C: Plant 6. 7. and 8

The following plants must be planned together Plan1, Plant 3, and Plant 4 Plant 2, Plant 6, and Plant 8 Plant 5 and Plant 7

You need to configure master planning for the facilities. Which configuration mechanism should you use?

- A. Intercompany planning groups
- B. Coverage groups
- C. Item model groups
- D. Production groups

Correct Answer: A

---

#### QUESTION 5

A chemical manufacturing company uses Dynamics 365 Supply Chain Management. A batch of material has a quality issue and must be reworked.

You need to create the rework order the production.

Which three options must be set? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Reserve the reworked inventory after estimation
- B. Set the item as a Formula production type
- C. Specify the batch number of the batch order
- D. Set the batch order as a rework batch
- E. Pick the reworked inventory after estimation

Correct Answer: ABD

---

#### QUESTION 6

##### HOTSPOT

A company produces lotions for pain relief and uses Dynamics 365 for Finance and Operations. You have been provided the following information for a new relieving lotion.



Released Products	Shelf advise period in days	Shelf life period in days	Inherit Shelf Life dates to end item	Inherit Batch Attributes to end item	Concentration	Viscosity	Acidity
Arnica	30	60	Yes	Yes	x		
Juniper Oil	30	60	Yes	Yes	x		
Aloe Leaf Juice	30	120	Yes	No			
Vegetable Glycerin	60	120	Yes	Yes	x	x	
Purified Water	120	365	Yes	No			x
Relieving Lotion FG	60	60	Yes	Yes	x	x	x

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

What is the expiration date of the batch produced?

06/01/2019
07/02/2019
04/21/2019
10/30/2019

How is the concentration of the finished product derived?

The final product is quality tested.
The value is inherited from the active Arnica product.
The value is inherited as the average of all the concentration values of the raw materials.
The value is inherited as the highest concentration value of all the raw materials.

Correct Answer:

## Answer Area

What is the expiration date of the batch produced?

06/01/2019
07/02/2019
04/21/2019
10/30/2019

How is the concentration of the finished product derived?

The final product is quality tested.
The value is inherited from the active Arnica product.
The value is inherited as the average of all the concentration values of the raw materials.
The value is inherited as the highest concentration value of all the raw materials.

### QUESTION 7

#### Background

Adventure Works Cycles is a high-end bicycle manufacturer in North America. Their standard model bicycles are available year-round. Limited-edition bicycle models are released several times a year to boutique retailers domestically. Adventure Works has had the most success with their limited-edition bicycles. These bicycles have high margins, are in high demand, and have a strong following with the younger generation biking community.

#### Current environment General

Adventure Works expects to triple their manufacturing capabilities in the next few years due to increasing demand. The company plans to invest in Dynamics 365 Finance, Dynamics 365 Supply Chain Management, and the Power Platform

products to migrate from a custom-built enterprise resource planning (ERP) solution and Microsoft Excel worksheets.

Adventure Works sells only to the United States and Canada. Despite their limited market, they cannot keep up with current demand. Over time, they want to expand their market to remain profitable.

Adventure Works has no capabilities or budget to undertake any development beyond Excel formula-level tasks.

#### Bicycle manufacturing

1.

Bicycle models are measured and reported against how well a single model performs as a sum of all the variations of that model. For example, the Street Kid YOLO model sold 25,000 units in 2019 across all variations of the product, but the Purple Female frame made up 30 percent of that model's sales.

2.

The Street Kid YOLO models sell in different volumes depending on the market.

3.

The creation of production orders for bicycles occurs monthly and is based on historical sales.

4.

Each part of a bicycle's assembly occurs at a different station in the Adventure Works production facility.

5.

A piece of paper that has eight sections accompanies a bicycle throughout the manufacturing process. As each step is completed, the respective section is completed and signed off by a production worker.

6.

The completed paper is used in the put-away process by the warehouse workers.

#### Financials

1.

The standard model and limited-edition bicycle teams are separate operating units within the manufacturing division. Financials are tracked and reported separately even though they are produced and sold in the same sales channels.

2.

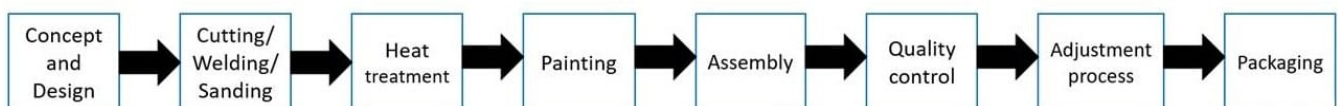
Updates to the standard model bicycle models are created when a part for a bicycle becomes unavailable. This can change the cost of the product.

3.

An updated model of a bicycle with new parts will be maintained as a new item and have a new price. However, it will look like the exact same product to retailers and distributors.

#### Manufacturing process

The bicycle manufacturing process is shown in the following graphic:



#### Limited-edition bicycle process

The limited-edition bicycles are made up of an Adventure Works custom frame with all other parts created by local artists and manufacturers.

1.

Each bicycle has a unique set of new items that make up the bill of materials (BOM) because all parts are created to specification.

2.

A single pilot limited-edition bicycle is created as a proof of concept.

3.

Adventure Works occasionally reuses components from existing bicycles, but most limited-edition bicycles are made of handcrafted components designed to specifications.

4.

Each limited-edition bicycle is built, and hand signed by a single Adventure Works artisan.

5.

Sales price must be auto calculated after the cost price is derived.

6.

Before creating the proof of concept limited-edition bicycle, the approximate sales price needs to be determined through a cost-plus 20 percent calculation.

7.

All items except for the frame in the prototype process are considered finished items and can be sold individually.

8.

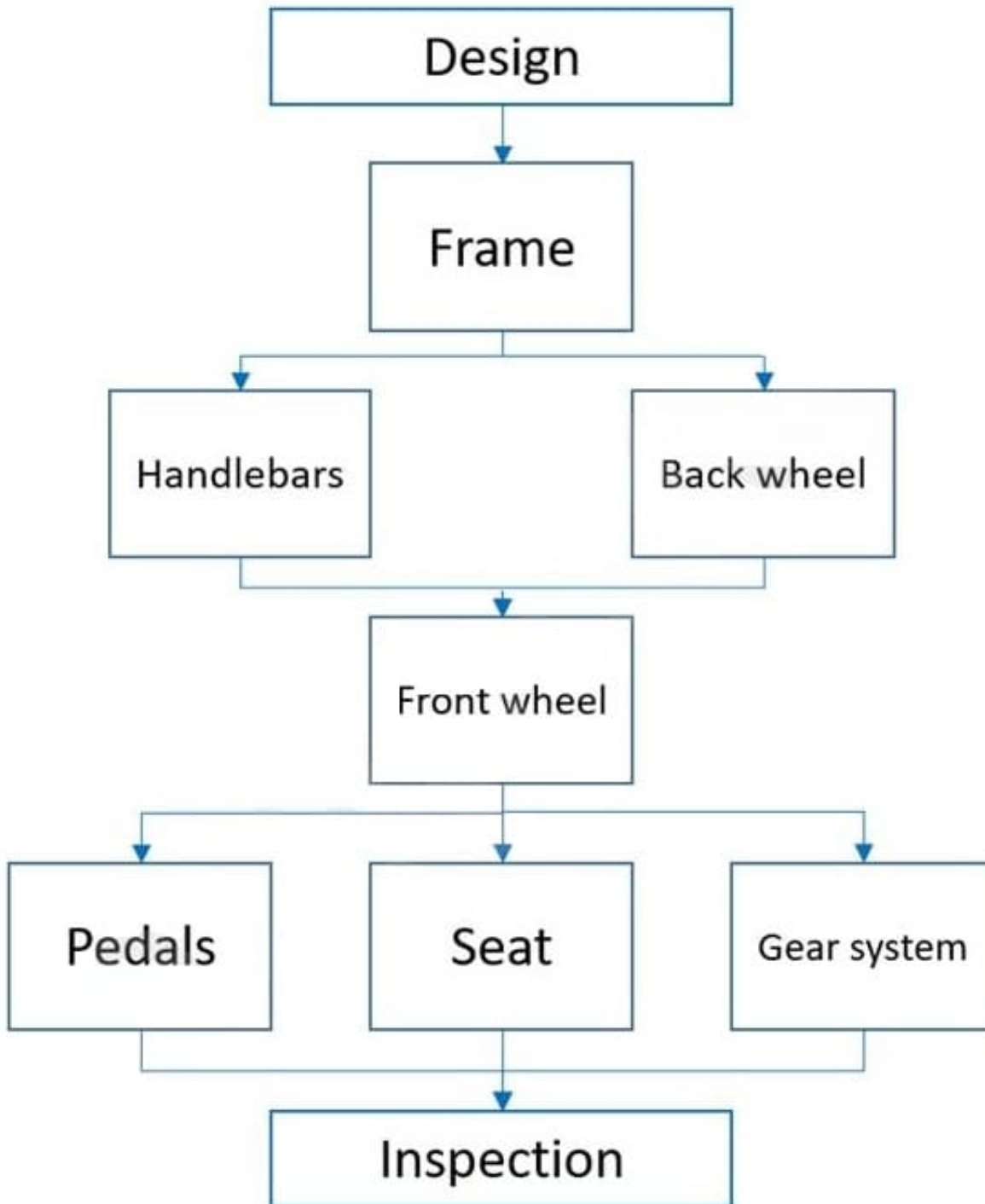
The frame items require modifications in accordance with the manufacturing process as well as painting.

9.

Each Adventure Works limited-edition bicycle artisan is scheduled to create a specific number of bicycles in a production run that must be completed by a certain date. 10. Limited-edition bicycle artisans work exclusively on a given run of limited-edition bicycles and are not able to work on other tasks.

Limited-edition bicycle BOM assembly process

The prototype process for the limited-edition bicycles is shown in the following graphic:



Requirements

General

1. Adventure Works will consist of three legal entities: the primary legal entity of the United States (AWUS), sales in Canada (AWCA), and an international expansion (AWIN).

2.

AWIN must be able to sell only standard model bicycles.

3.

AWUS and AWCA must be able to sell both standard model and limited-edition bicycles.

4.

Warehouse workers must use the Warehouse Management mobile application to manage all inventory inbound and outbound from the warehouse.

Bicycle manufacturing

1.

The handlebars, back wheels, and front wheels must not change for any of the bicycle model configurations.

2.

Standard model bicycle production scheduling must be configured to start as soon as possible.

3.

Bicycle components must be automatically reserved when the item is released to the production floor.

4.

Standard model bicycle production must be automatically created on a predefined schedule.

5.

As soon as bicycles are completed, they must be available to fulfill the backlog of orders.

6.

Limited-edition bicycle production must be configured to meet the end date for when the bicycles must be completed.

7.

Production orders need to track financials by standard model or limited-edition bicycle manufacturing teams.

8.

The system must log the immediate consumption of BOMs for traceability.

9.

All inventory is warehouse enabled.

10. Finished goods are reported as finished by the warehouse worker who picks up the finished product from the packaging area.

11. Finished products must automatically have put-away work completed for them.

New limited-edition bicycle process

Adventure Works is creating a new, limited-edition bicycle to commemorate the company's tenth anniversary. The limited-edition bicycle will be designed for charity events and be produced for the summer season.

1.

The bicycle must be available in men's, women's, and unisex frame styles. It will be painted in one of 50 hand-painted designs representing the charity of the customer's choosing.

2.

A limited run of 100 bicycles must be created.

3.

The limited-edition bicycles must use the same production process as the standard model bicycles.

4.

The limited-edition bicycles must use the same parts used for previous limited-edition bicycles, except for the unique paint colors.

5.

Frames must be painted in-house.

6.

Five painting options are available only in the unisex frame style.

New limited-edition bicycle orders

1.

Customers must be able to place sales orders for the item in the chosen frame configuration, including style and color.

2.

When an order for the new limited-edition bicycle is created, payment must be provided.

3.

An approval for an order must exist for the order to be processed.

4.

Upon approval of an order, production must start immediately and not require re-entry of data.

A. Run inventory close for the BOM items for the limited-edition bicycle.

B. Create the production order for the limited-edition bicycle and click estimate.

C. Run the category price rules for the limited-edition bicycle using a cost-plus calculation.

D. Run the pricing simulator for the limited-edition bicycle for a quantity of one.

Correct Answer: B

### QUESTION 8

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

A company uses Dynamics 365 Supply Chain Management to manage production configuration.

A product designer creates a remote control toy that can be purchased with different tire sizes.

Sales representatives need to perform product configuration for the custom tire variants when they create a new order.

Solution: Select the custom tire size when filling out the item requirement line.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

---

### QUESTION 9

#### HOTSPOT

You need to configure the requirements for metal fabrication equipment maintenance. What must you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Requirement	Configuration
Maintenance technician assignment.	<input type="checkbox"/> Assign a functional location to a worker. <input type="checkbox"/> Assign a functional location to a worker. <input type="checkbox"/> Create a site financial dimension. <input type="checkbox"/> Set limit to responsible to no. <input type="checkbox"/> Set limit to responsible to yes.
Ensure maintenance for warranty schedule.	<input type="checkbox"/> Time <input type="checkbox"/> Time <input type="checkbox"/> Counter <input type="checkbox"/> Capacity load

Correct Answer:

Requirement	Configuration
Maintenance technician assignment.	<input type="checkbox"/> Assign a functional location to a worker. <input checked="" type="checkbox"/> Assign a functional location to a worker. <input type="checkbox"/> Create a site financial dimension. <input type="checkbox"/> Set limit to responsible to no. <input type="checkbox"/> Set limit to responsible to yes.
Ensure maintenance for warranty schedule.	<input type="checkbox"/> Time <input checked="" type="checkbox"/> Time <input type="checkbox"/> Counter <input type="checkbox"/> Capacity load

**QUESTION 10**

**HOTSPOT**

A company implements Dynamics 365 Finance and Operations.

You need to ensure that cost roll-ups and sales price calculations are configured for the scenario.

Which options should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Scenario

Option

An item cost record is generated from a sales quotation for the customer.

▼
order-specific BOM calculation
costing-version BOM calculation

An item cost is generated from a production order estimate.

▼
calculation restriction
recording restriction

Correct Answer:

Scenario

Option

An item cost record is generated from a sales quotation for the customer.

▼
order-specific BOM calculation
costing-version BOM calculation

An item cost is generated from a production order estimate.

▼
calculation restriction
recording restriction

Reference: <https://docs.microsoft.com/en-us/dynamics365/supply-chain/cost-management/bom-calculations>

**QUESTION 11**

You need to set up the state control for sales of motorcycles.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

Case Study Title (Case Study):General information

A manufacturing company produces custom configured-to-order motorcycles. The company plans to implement Dynamics 365 Supply Chain Management. The company contains one legal entity located in Missouri where all production and warehousing operations occur.

Customization options

The custom motorcycles have a variety of selections that can be selected in the listed order by the end customer, including the following:

Selection order	Option	Values
1	Engine	Small = 0, large = 1
2	Color	black, green, orange, silver
3	Trim	standard, sport, legend
4	Seat	standard, MS, ML
5	Upgrade Packages	storage package, LED headlamp, custom chrome wheels

Customization restrictions

The following restrictions on customizations are in place:

\*

Green color can only be sold with the Legend Trim.

\*

Orange color can be sold with the Sport or Legend Trim.

\*

The ML seat must be included in the Legend package.

\*

The MS seat must be included in the Sport package.

Manufacturing facilities

The company includes the following manufacturing groups: Assembly and Plastic Molding. The Assembly group is responsible for assembling the motorcycles with purchased and manufactured goods. The Plastic Molding group is responsible for manufacture of all plastic parts used in the assembly area.

### Motorcycle manufacturing

The parts for the product assembly are picked from the warehouse and staged at the correct workstation by a warehouse operator for each production order.

### Plastic manufacturing

Plastic parts are molded using dyes that create multiple parts at once. The parts are machined in the same production process to remove excess plastic and add additional holes for assembly. Excess plastic is recycled back into the feedstock of the same color plastic chips for use in the molding process.

### Metal Parts

Raw metal parts are purchased fully machined but without primer or paint. The parts are subcontracted to a vendor for primer and paint based upon the color requirements.

### Facility

The company has a single warehouse that supports both the assembly and plastic manufacturing areas. The warehouse consists of three aisles with 15 bins and three shelves. The facility has no Wi-Fi capacity but has hardwired terminal

stations throughout the assembly production line.

Transactions are currently completed by office staff. Raw materials transfer must support capacity constraints for paint and primer.

### Requirements

The company has a single warehouse that supports both the assembly and plastic manufacturing areas. The warehouse consists of three aisles with 15 bins and three shelves. The facility has no Wi-Fi capacity but has hardwired terminal

stations throughout the assembly production line.

Transactions are currently completed by office staff. Raw materials transfer must support capacity constraints for paint and primer.

### Sales Order

The company has the following requirements for sales orders:

\*

During the configuration of a sales order, invalid combinations must be prevented.

\*

Each configuration must create a unique bill of material (BOM) and Route based on options selected.

\*

Sales pricing for the sales order must be based upon options selected.

\*

Due to emissions regulations, the motorcycles cannot be sold to the state of California.

### Motorcycle manufacturing

The company has the following requirements for motorcycle manufacturing:

\*

Schedule labor only at the labor pool level without machines by day

\*

Produce motorcycles within a scheduled day in any order.

\*

Record actual production labor with start/stop times.

\*

Record manager approval of labor entered prior to posting.

\*

Post actual material consumption after production is finished.

### Plastic manufacture

The company has the following requirements for motorcycle manufacturing:

\*

Schedule both labor and machines.

\*

Adjust schedules by using a Gantt chart.

\*

Backflush standard labor by operation.

\*

Post actual material consumption at the start of production.

\*

Track and allocate costs to the excess plastic.

\*

Report multiple molded part numbers during the same production run.

\*

Determine the correct mold to use on a production order.

\*

Generate a batch number for each production order.

#### Metal Parts

The company has the following requirements for metal parts manufacturing:

\*

Schedule shipments to the vendor for painting.

\*

Receive painted parts into inventory from the vendor.

\*

Track vendor inventory levels.

Default You must configure defaults for manufacturing execution production orders to meet the following requirements:

\*

Ensure accuracy for production order pick list posting.

\*

Ensure correct pick list creation.

#### Issues

A. In the current system, the company cannot calculate overhead rates and determine the breakdown of material, labor, machine, and overhead costs for production.

B. The company is manually calculating an 8% overhead on materials and posting a journal manually.

A. Create an inclusive restricted product list for United States. Do not add the motorcycle part to the list.

B. Create an inclusive restricted product list for United States and add the motorcycle part to the list.

C. Create an exclusive restricted product list for California and add the motorcycle part to the list.

D. Create an exclusive restricted product list for Missouri and add the motorcycle part to the list.

Correct Answer: BC

<https://stoneridgesoftware.com/working-with-restricted-products-in-dynamics-365-operations/>

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#### QUESTION 12

A glass bottle manufacturer uses route operations to schedule resources and track manufacturing costs.

The company has recently seen an increase in demand and purchases another resource. The company uses the same costs per resource. However, the new resource costs more to run. The company must be able to track cost contributions

for the new resource.

You need to create a cost category for the new resource.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: Each correct selection is worth one point.

Select and Place:

**Actions**

Assign the surcharge node to the resource

Create a new cost category

Update the cost price on the existing cost categories

Create a new cost group

Assign the cost group for the indirect cost to the route operation

Assign the cost category to all route operations that use the new resource



**Answer Area**

Correct Answer:

**Actions**

Assign the surcharge node to the resource

Update the cost price on the existing cost categories

Assign the cost group for the indirect cost to the route operation



**Answer Area**

Create a new cost group

Create a new cost category

Assign the cost category to all route operations that use the new resource

**QUESTION 13**

You work for a gem wholesaler that sells raw diamonds. Diamonds are purchased and sold in individual boxes but weighed and inventoried in carats.

You are setting up a catch weight item for diamonds. Each box of diamonds must be tracked by its individual container weight.

You need to set up this item as a full visibility catch weight item. Which two steps must you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Assign it a Serial number group with per qty. defined as 1.
- B. Assign the item a Tracking dimension group with active serial number control.
- C. Create an inter-class unit of measure conversion between boxes and carats.
- D. Assign a Tracking dimension group with batch number as the only active tracking dimension.

Correct Answer: BC

References: <https://docs.microsoft.com/en-us/dynamicsax-2012/appuser-itpro/create-a-catch-weight-item-with-full-visibility>

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**QUESTION 14**

A paint manufacturer is using Process manufacturing. The manufacturer has a quality error. Batches of paint that use the wrong formula have been marked for rework.

The production planner reports they cannot schedule the batch order even though the order has been estimated.

You need to add reservations to the items to be used for the rework order.

What should you do?

- A. Reserve the inventory in the formula
- B. Reset the batch order and delete the formula items. Re-enter the formula items
- C. Add by-products that need to be used and then re-estimate
- D. Add co-products that need to be used and then re-estimate

Correct Answer: A

---

**QUESTION 15**

A company implements Dynamics 365 Supply Chain Management.

Due to increased demand and limited space in the work cell area for product L0050, you must subcontract overflow work to another company. You have the following requirements:



1.

Locate a warehouse at the subcontractor building.

2.

Support picking and shipping activity tracking.

3.

Associate costs of transporting materials between the locations in the cost of the finished product. You need to modify the production flow.

Which three actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Modify the overflow work activity and assign it to subcontractor
- B. Create transfer activities and assign them to the subcontractor
- C. Create a resource and work cell resource group for the subcontractor
- D. Create a new production flow version
- E. Modify the overflow work operation and associate it with the subcontractor

Correct Answer: ABC

Reference: <https://docs.microsoft.com/en-us/dynamics365/supply-chain/production-control/manage-subcontract-work-production>

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