

- **Vendor: Microsoft**
- **Exam Code: MB-320**
- **Exam Name: Microsoft Dynamics 365 for Finance and Operations, Manufacturing**
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QUESTION 1**Case Study 1****Background****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

Current environment**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

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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**Sales orders**

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 manufacturing

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.

Current environment**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.

Defaults

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

- In the current system, the company cannot calculate overhead rates and determine the breakdown of material, labor, machine, and overhead costs for production.
- The company is manually calculating an 8% overhead on materials and posting a journal manually.

You need to create the constraint for the ML seat selection.

Which expression constraint should you use?

- A. `Implies[Trim==Legend,Seat==ML]`
- B. `Seat!=ML`
- C. `[Trim==Legend|Seat==ML]`
- D. `Implies[Seat==ML,Trim==Legend]`

Answer: D

Explanation:

<https://docs.microsoft.com/en-us/dynamics365/supply-chain/pim/expression-constraints-table-constraints-product->

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configuration-models

QUESTION 2

Case Study 1

Background

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

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5	Upgrade Packages	storage package, LED headlamp, custom chrome wheels

Current environment

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.
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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

Sales orders

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:

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- Schedule labor only at the labor pool level without machines by day.
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Plastic manufacturing

The company has the following requirements for motorcycle manufacturing:

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Current environment**Metal parts**

The company has the following requirements for metal parts manufacturing:

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- Receive painted parts into inventory from the vendor.
- Track vendor inventory levels.

Defaults

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

- In the current system, the company cannot calculate overhead rates and determine the breakdown of material, labor, machine, and overhead costs for production.
- The company is manually calculating an 8% overhead on materials and posting a journal manually.

You need to set up the correct production solution for the assembly area.

Which solution should you implement?

- A. Standard warehousing with Manufacturing execution
- B. Standard warehousing for all transactions
- C. Advanced warehousing for all transactions
- D. Advanced warehousing with Manufacturing execution

Answer: D

QUESTION 3**Case Study 1****Background****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.

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3	Trim	standard, sport, legend
4	Seat	standard, MS, ML
5	Upgrade Packages	storage package, LED headlamp, custom chrome wheels

Current environment

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.
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- 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

Sales orders

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 manufacturing

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.

Current environment

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.

Defaults

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

- In the current system, the company cannot calculate overhead rates and determine the breakdown of material, labor, machine, and overhead costs for production.
- The company is manually calculating an 8% overhead on materials and posting a journal manually.

You need to set up the configuration model to price the motorcycles correctly.

What should you do?

- Set Order type in price model to Sales Order and Pricing method in Version to Attribute based.
- Set Order type in price model to Sales Order and Pricing method in Version to Cost based.
- Set Order type in price model to Sales Quotation and Pricing method in Version to Attribute based.
- Set Order type in price model to Sales Quotation and Pricing method in Version to Cost based.

Answer: A

QUESTION 4

Case Study 1

Background

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.

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Current environment

Customization restrictions

The following restrictions on customizations are in place:

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- 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

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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**Sales orders**

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 manufacturing

The company has the following requirements for motorcycle manufacturing:

- Schedule both labor and machines.
- Adjust schedules by using a Gantt chart.
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Current environment**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.

Defaults

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

- In the current system, the company cannot calculate overhead rates and determine the breakdown of material, labor, machine, and overhead costs for production.
- The company is manually calculating an 8% overhead on materials and posting a journal manually.

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.

- 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.

Answer: BC

Explanation:

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

QUESTION 5

Case Study 1

Background

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:

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4	Seat	standard, MS, ML
5	Upgrade Packages	storage package, LED headlamp, custom chrome wheels

Current environment

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

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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**Sales orders**

The company has the following requirements for sales orders:

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- 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.
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- 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 manufacturing

The company has the following requirements for motorcycle manufacturing:

- Schedule both labor and machines.
- Adjust schedules by using a Gantt chart.
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- 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.

Current environment**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.

Defaults

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

- In the current system, the company cannot calculate overhead rates and determine the breakdown of material, labor, machine, and overhead costs for production.
- The company is manually calculating an 8% overhead on materials and posting a journal manually.

Hotspot Question

You need to modify the production order defaults for the manufacturing execution production order Start process.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Production order defaults

General	Start JOURNALS	START	Automatic route consumption	PICKING LIST JOURNALS	End-mark picking list	Complete picking list journal
Start	Update start on-line Status + quantity	Start production Yes <input checked="" type="checkbox"/>	Never	Picking list Pick	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Operations	Use Manufacturing Execution parameters Yes <input checked="" type="checkbox"/>	References No <input type="checkbox"/>	Post route card now No <input type="checkbox"/>	Automatic BOM consumption Always Flushing Principle None	Physical reduction No <input type="checkbox"/>	Create journal per <input type="text"/>
Report as finished	Open picking list journals <input type="text"/>	ROUTE CARD JOURNAL	End-mark route No <input type="checkbox"/>	Post picking list now Yes <input checked="" type="checkbox"/>	Pick negative No <input type="checkbox"/>	
Quantity validation		Route card Route				

Answer:

Answer Area

Production order defaults

General	Start JOURNALS	START	Automatic route consumption	PICKING LIST JOURNALS	End-mark picking list	Complete picking list journal
Start	Update start on-line Status + quantity	Start production Yes <input checked="" type="checkbox"/>	Never	Picking list Pick	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Operations	Use Manufacturing Execution parameters Yes <input checked="" type="checkbox"/>	References No <input type="checkbox"/>	Post route card now No <input type="checkbox"/>	Automatic BOM consumption Always Flushing Principle None	Physical reduction No <input type="checkbox"/>	Create journal per <input type="text"/>
Report as finished	Open picking list journals <input type="text"/>	ROUTE CARD JOURNAL	End-mark route No <input type="checkbox"/>	Post picking list now Yes <input checked="" type="checkbox"/>	Pick negative No <input type="checkbox"/>	
Quantity validation		Route card Route				

QUESTION 6

Case Study 1

Background

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

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Selection order	Option	Values
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5	Upgrade Packages	storage package, LED headlamp, custom chrome wheels

Current environment

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

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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**Sales orders**

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 manufacturing

The company has the following requirements for motorcycle manufacturing:

- Schedule both labor and machines.
- Adjust schedules by using a Gantt chart.
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Current environment**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.

Defaults

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

- In the current system, the company cannot calculate overhead rates and determine the breakdown of material, labor, machine, and overhead costs for production.
- The company is manually calculating an 8% overhead on materials and posting a journal manually.

Drag and Drop Question

You need to set up the system to calculate the overhead rates automatically for production.

Which four 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.

Actions	Answer Area
Define the basis for calculating costs as absorption.	
Create overhead calculation node for materials as surcharge and labor as rate for setup time.	
Create overhead calculation node for materials as input unit based and labor as rate for setup time.	
Create cost groups.	
Associate cost groups to items and cost categories.	
Define the basis for calculating costs as surcharge.	
Create price total and cost group nodes on costing sheet.	
Associate cost groups to items and resources.	

Answer:

Actions	Answer Area
	Create cost groups.
	Associate cost groups to items and resources.
Create overhead calculation node for materials as input unit based and labor as rate for setup time.	Create overhead calculation node for materials as surcharge and labor as rate for setup time.
	Define the basis for calculating costs as absorption.
Associate cost groups to items and cost categories.	
Define the basis for calculating costs as surcharge.	
Create price total and cost group nodes on costing sheet.	

QUESTION 7

Case Study 1

Background

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

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Current environment

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The following restrictions on customizations are in place:

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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

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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**Sales orders**

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 manufacturing

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.

Current environment**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.

Defaults

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

- In the current system, the company cannot calculate overhead rates and determine the breakdown of material, labor, machine, and overhead costs for production.
- The company is manually calculating an 8% overhead on materials and posting a journal manually.

Hotspot Question

You need to configure scheduling for each production area.

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

NOTE: Each correct selection is worth one point.

Answer Area

Production area	Scheduling option
Plastic	<div><div></div><div>Job</div><div>Operation</div><div>Bottleneck</div><div>Capacity</div></div>
Assembly	<div><div></div><div>Job</div><div>Operation</div><div>Bottleneck</div><div>Capacity</div></div>
Subcontracting	<div><div></div><div>Job</div><div>Operation</div><div>Bottleneck</div><div>Capacity</div></div>

Answer:

Answer Area

Production area	Scheduling option
Plastic	<div>▼</div> <div> Job Operation Bottleneck Capacity </div>
Assembly	<div>▼</div> <div> Job Operation Bottleneck Capacity </div>
Subcontracting	<div>▼</div> <div> Job Operation Bottleneck Capacity </div>

QUESTION 8

Case Study 1

Background

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

Current environment

Customization restrictions

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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**Sales orders**

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 manufacturing

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.

Current environment**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.

Defaults

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

- In the current system, the company cannot calculate overhead rates and determine the breakdown of material, labor, machine, and overhead costs for production.
- The company is manually calculating an 8% overhead on materials and posting a journal manually.

Hotspot Question

You need to configure each item for plastic manufacturing.

Which production types should you use? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Item	Production type
Raw plastic	<div><div></div><div>None</div><div>By-Product</div><div>Co-Product</div><div>Planning Item</div></div>
Excess plastic	<div><div></div><div>Scrap</div><div>By-Product</div><div>Co-Product</div><div>Planning Item</div></div>
Mold	<div><div></div><div>None</div><div>By-Product</div><div>Co-Product</div><div>Planning Item</div></div>
Plastic parts	<div><div></div><div>None</div><div>By-Product</div><div>Co-Product</div><div>Planning Item</div></div>

Answer:

Answer Area

Item	Production type
Raw plastic	<div>▼</div> <div>None</div> <div>By-Product</div> <div>Co-Product</div> <div>Planning Item</div>
Excess plastic	<div>▼</div> <div>Scrap</div> <div>By-Product</div> <div>Co-Product</div> <div>Planning Item</div>
Mold	<div>▼</div> <div>None</div> <div>By-Product</div> <div>Co-Product</div> <div>Planning Item</div>
Plastic parts	<div>▼</div> <div>None</div> <div>By-Product</div> <div>Co-Product</div> <div>Planning Item</div>

QUESTION 9

Case Study 2

Current environment

Products manufactured

- Cleaning equipment
 - floor cleaner
 - pressure washers
 - scrubbers
 - vacuums
- Liquid cleaning solutions
 - No scent
 - Orange scent (subcontracted to a vendor named VendorA)
 - Pine scent (subcontracted to a vendor named VendorA)

The production quantity for the finished unscented liquid cleaning solution is 40-liters. IngredientC for unscented liquid cleaning solution is stored in inventory in 50-liter barrels and allocated in 50-liter increments. Two barrels of IngredientC are used to produce a barrel of unscented liquid cleaning solution.

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Production sites

The Eastern United States facility manufactures equipment.

The Western United States facility manufactures liquid cleaning solutions.

Raw materials and finished products are stocked at the warehouse and distributed from the warehouse.

Warehouse facilities

The warehouse consists of the following zones:

Zone	Description
1	This zone stores parts and materials for manufacturing machine equipment and finished products. It consists of four aisles, five shelves, and 20 bins.
2	This zone stores barrels of liquid raw material and finished products. It consists of five aisles and 20 shelves.

Requirements

Cleaning equipment manufacturing

You identify the following requirements for manufacturing cleaning equipment:

- Production is Make to Stock and must be scheduled at an operational level.
- Machine equipment is produced on an assembly line. Scheduling must be based on production orders.
- Finished products must be packaged and shipped directly from the warehouse.
- To reduce delivery times and excess inventory, equipment must be produced as needed.
- The ability to schedule production must be based on resource capacity and the availability of required material.
- Production order operations must be scheduled to start only when capacity and materials are available at the same time and in the required quantities.

Liquid cleaning solution manufacturing

- Production is Make to Order and is scheduled at the job level. Products must be manufactured in batches.
- Finished products must be packaged and shipped directly from the warehouse.
- You must be able to calculate the estimated consumption of ingredients and ensure that the amount is divisible by the number of units the raw material is available.
- Formula changes must be reviewed and approved. You must ensure that approved formulas cannot be deleted or edited. Approved formulas may be deactivated.
- An ingredient used to manufacture unscented cleaning solution is defined as a restricted product. You must be able to automatically print a product safety data sheet (PSDS) with the packing slip for any order that includes unscented cleaning solution.
- Production must be scheduled to start by date and time according to the order that is specified by the production route.
- You must implement a scheduled Kanban rule that meets the following requirements:
 - Prevent overloading a work cell for scheduled Kanbans.
 - Visualize excess inventory in a supermarket.
 - Store products in supermarkets before they are consumed or shipped.
- You must link relevant financial dimension data to the inventory transactions at each site to ensure that you can trace profit and loss figures directly to East site and West site respectively.
- You must set up production operations for sub-contracting of Pine scent and Orange scent solution to VendorA to ensure that a purchase order is automatically created based on estimation of a production order.

Costing

- The price of raw materials used for manufacturing unscented cleaning solution must be tracked based upon commodity exchange pricing. The margin and cost multiplier must be set up for commodity traded raw material.
- You must set up cost calculation groups to ensure that indirect costs that originate in the manufacturing of finished goods are recognized and absorbed into the product cost.
- The production manager needs to set up picking list journals and BOM item consumption.

Reporting

- Production control parameters must be setup for reporting of automatic BOM and Route consumption.
- You must create reports that include information about cost records and categories for items, and calculation formulas for indirect costs.
- You must treat manufactured items as purchased items for cost roll-up purposes during BOM calculations and reporting.

- You must configure automatic route consumption in connection with the automatic running of Report as finished.

Inventory control

You must not be required to track the lot number for items when you enter inventory information into the system. Lot numbers for items must be entered when items are picked from inventory.

Issues

Users report the following issues:

- The production manager observes that items are being deducted from inventory two times on production jobs. A shop supervisor mistakenly registers the process for assembling batteries for the pressure washers to Registered as prepared. You must reschedule the process for a future date.
- Customer1 orders 20 barrels of unscented solution. The order is confirmed. Production must be scheduled to start on December 21 to meet the customers delivery deadline.
- User2 reports that costs for manufactured items are twice as high as expected.
- UserD reports that the formula for the liquid cleaning solution sometimes changes during production. You must enforce the policies regarding formula editing for current and future use.

You need to configure costing for raw materials used to manufacture unscented cleaning solution.

Which form should you use?

- A. Cost basis type
- B. Quantity and margin template
- C. Pricing calculation
- D. Pricing template

Answer: B

Explanation:

<https://docs.microsoft.com/en-us/dynamicsax-2012//quantity-and-margin-template-form?redirectedfrom=MSDN>

QUESTION 10

Case Study 2

Current environment

Products manufactured

- Cleaning equipment
 - floor cleaner
 - pressure washers
 - scrubbers
 - vacuums
- Liquid cleaning solutions
 - No scent
 - Orange scent (subcontracted to a vendor named VendorA)
 - Pine scent (subcontracted to a vendor named VendorA)

The production quantity for the finished unscented liquid cleaning solution is 40-liters. IngredientC for unscented liquid cleaning solution is stored in inventory in 50-liter barrels and allocated in 50-liter increments. Two barrels of IngredientC are used to produce a barrel of unscented liquid cleaning solution.

Production sites

The Eastern United States facility manufactures equipment.

The Western United States facility manufactures liquid cleaning solutions.

Raw materials and finished products are stocked at the warehouse and distributed from the warehouse.

Warehouse facilities

The warehouse consists of the following zones:

Zone	Description
1	This zone stores parts and materials for manufacturing machine equipment and finished products. It consists of four aisles, five shelves, and 20 bins.
2	This zone stores barrels of liquid raw material and finished products. It consists of five aisles and 20 shelves.

Requirements

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Cleaning equipment manufacturing

You identify the following requirements for manufacturing cleaning equipment:

- Production is Make to Stock and must be scheduled at an operational level.
- Machine equipment is produced on an assembly line. Scheduling must be based on production orders.
- Finished products must be packaged and shipped directly from the warehouse.
- To reduce delivery times and excess inventory, equipment must be produced as needed.
- The ability to schedule production must be based on resource capacity and the availability of required material.
- Production order operations must be scheduled to start only when capacity and materials are available at the same time and in the required quantities.

Liquid cleaning solution manufacturing

- Production is Make to Order and is scheduled at the job level Products must be manufactured in batches.
- Finished products must be packaged and shipped directly from the warehouse.
- You must be able to calculate the estimated consumption of ingredients and ensure that the amount is divisible by the number of units the raw material is available.
- Formula changes must be reviewed and approved. You must ensure that approved formulas cannot be deleted or edited. Approved formulas may be deactivated.
- An ingredient used to manufacture unscented cleaning solution is defined as a restricted product. You must be able to automatically print a product safety data sheet (PSDS) with the packing slip for any order that includes unscented cleaning solution.
- Production must be schedule to start by date and time according to the order that is specified by the production route.
- You must implement a scheduled Kanban rule that meets the following requirements:
 - Prevent overloading a work cell for scheduled Kanbans.
 - Visualize excess inventory in a supermarket.
 - Store products in supermarkets before they are consumed or shipped.
- You must link relevant financial dimension data to the inventory transactions at each site to ensure that you can trace profit and loss figures directly to East site and West site respectively.
- You must set up production operations for sub-contracting of Pine scent and Orange scent solution to VendorA to ensure that a purchase order is automatically created base on estimation of a production order.

Costing

- The price of raw materials used for manufacturing unscented cleaning solution must be tracked based upon commodity exchange pricing. The margin and cost multiplier must be set up for commodity traded raw material.
- You must set up cost calculation groups to ensure that indirect costs that originate in the manufacturing of finished goods are recognized and absorbed into the product cost.
- The production manager needs to set up picking list journals and BOM item consumption.

Reporting

- Production control parameters must be setup for reporting of automatic BOM and Route consumption.
- You must create reports that include information about cost records and categories for items, and calculation formulas for indirect costs.
- You must treat manufactured items as purchased items for cost roll-up purposes during BOM calculations and reporting.
- You must configure automatic route consumption in connection with the automatic running of Report as finished.

Inventory control

You must not be required to track the lot number for items when you enter inventory information into the system. Lot numbers for items must be entered when items are picked from inventory.

Issues

Users report the following issues:

- The production manager observes that items are being deducted from inventory two times on production jobs. A shop supervisor mistakenly registers the process for assembling batteries for the pressure washers to Registered as prepared. You must reschedule the process for a future date.
- Customer1 orders 20 barrels of unscented solution. The order is confirmed. Production must be scheduled to start on December 21 to meet the customers delivery deadline.
- User2 reports that costs for manufactured items are twice as high as expected.
- UserD reports that the formula for the liquid cleaning solution sometimes changes during production. You must enforce the policies regarding formula editing for current and future use.

You need to configure production control parameters for liquid cleaning solution manufacturing. What are two possible ways to achieve this goal? Each correct answer presents a complete solution.
 NOTE: Each correct selection is worth one point.

- A. Require an electronic signature when the formula is approved.
- B. Select Block editing and approve the formula.
- C. Select the Block removal of approval option for the formula
- D. Select the Block editing option only.

Answer: BC

Explanation:

<https://docs.microsoft.com/en-us/dynamics365/supply-chain/production-control/formulas-versions>

QUESTION 11

Case Study 2

Current environment

Products manufactured

- Cleaning equipment
 - floor cleaner
 - pressure washers
 - scrubbers
 - vacuums
- Liquid cleaning solutions
 - No scent
 - Orange scent (subcontracted to a vendor named VendorA)
 - Pine scent (subcontracted to a vendor named VendorA)

The production quantity for the finished unscented liquid cleaning solution is 40-liters. IngredientC for unscented liquid cleaning solution is stored in inventory in 50-liter barrels and allocated in 50-liter increments. Two barrels of IngredientC are used to produce a barrel of unscented liquid cleaning solution.

Production sites

The Eastern United States facility manufactures equipment.

The Western United States facility manufactures liquid cleaning solutions.

Raw materials and finished products are stocked at the warehouse and distributed from the warehouse.

Warehouse facilities

The warehouse consists of the following zones:

Zone	Description
1	This zone stores parts and materials for manufacturing machine equipment and finished products. It consists of four aisles, five shelves, and 20 bins.
2	This zone stores barrels of liquid raw material and finished products. It consists of five aisles and 20 shelves.

Requirements

Cleaning equipment manufacturing

You identify the following requirements for manufacturing cleaning equipment:

- Production is Make to Stock and must be scheduled at an operational level.
- Machine equipment is produced on an assembly line. Scheduling must be based on production orders.
- Finished products must be packaged and shipped directly from the warehouse.
- To reduce delivery times and excess inventory, equipment must be produced as needed.
- The ability to schedule production must be based on resource capacity and the availability of required material.
- Production order operations must be scheduled to start only when capacity and materials are available at the same time and in the required quantities.

Liquid cleaning solution manufacturing

- Production is Make to Order and is scheduled at the job level Products must be manufactured in batches.
- Finished products must be packaged and shipped directly from the warehouse.

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- You must be able to calculate the estimated consumption of ingredients and ensure that the amount is divisible by the number of units the raw material is available.
- Formula changes must be reviewed and approved. You must ensure that approved formulas cannot be deleted or edited. Approved formulas may be deactivated.
- An ingredient used to manufacture unscented cleaning solution is defined as a restricted product. You must be able to automatically print a product safety data sheet (PSDS) with the packing slip for any order that includes unscented cleaning solution.
- Production must be scheduled to start by date and time according to the order that is specified by the production route.
- You must implement a scheduled Kanban rule that meets the following requirements:
 - Prevent overloading a work cell for scheduled Kanbans.
 - Visualize excess inventory in a supermarket.
 - Store products in supermarkets before they are consumed or shipped.
- You must link relevant financial dimension data to the inventory transactions at each site to ensure that you can trace profit and loss figures directly to East site and West site respectively.
- You must set up production operations for sub-contracting of Pine scent and Orange scent solution to VendorA to ensure that a purchase order is automatically created based on estimation of a production order.

Costing

- The price of raw materials used for manufacturing unscented cleaning solution must be tracked based upon commodity exchange pricing. The margin and cost multiplier must be set up for commodity traded raw material.
- You must set up cost calculation groups to ensure that indirect costs that originate in the manufacturing of finished goods are recognized and absorbed into the product cost.
- The production manager needs to set up picking list journals and BOM item consumption.

Reporting

- Production control parameters must be setup for reporting of automatic BOM and Route consumption.
- You must create reports that include information about cost records and categories for items, and calculation formulas for indirect costs.
- You must treat manufactured items as purchased items for cost roll-up purposes during BOM calculations and reporting.
- You must configure automatic route consumption in connection with the automatic running of Report as finished.

Inventory control

You must not be required to track the lot number for items when you enter inventory information into the system. Lot numbers for items must be entered when items are picked from inventory.

Issues

Users report the following issues:

- The production manager observes that items are being deducted from inventory two times on production jobs. A shop supervisor mistakenly registers the process for assembling batteries for the pressure washers to Registered as prepared. You must reschedule the process for a future date.
- Customer1 orders 20 barrels of unscented solution. The order is confirmed. Production must be scheduled to start on December 21 to meet the customer's delivery deadline.
- User2 reports that costs for manufactured items are twice as high as expected.
- UserD reports that the formula for the liquid cleaning solution sometimes changes during production. You must enforce the policies regarding formula editing for current and future use.

Hotspot Question

You need to resolve the production manager issue.

How should you configure manufacturing execution? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Automatic BOM consumption stage	Field
Start	<div> <div></div> <div>Flushing principle</div> <div>Never</div> <div>Status</div> </div>
Operation	<div> <div></div> <div>Always</div> <div>Flushing principle</div> <div>Status + quantity</div> </div>
Report as Finished	<div> <div></div> <div>Status + quantity</div> <div>Always</div> <div>Never</div> </div>

Answer:

Answer Area

Automatic BOM consumption stage	Field
Start	<div> <div></div> <div>Flushing principle</div> <div>Never</div> <div>Status</div> </div>
Operation	<div> <div></div> <div>Always</div> <div>Flushing principle</div> <div>Status + quantity</div> </div>
Report as Finished	<div> <div></div> <div>Status + quantity</div> <div>Always</div> <div>Never</div> </div>

Explanation:

<https://docs.microsoft.com/en-us/dynamicsax-2012/appuser-itpro/about-production-parameters-in-manufacturing->

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execution

QUESTION 12

Case Study 2

Current environment

Products manufactured

- Cleaning equipment
 - floor cleaner
 - pressure washers
 - scrubbers
 - vacuums
- Liquid cleaning solutions
 - No scent
 - Orange scent (subcontracted to a vendor named VendorA)
 - Pine scent (subcontracted to a vendor named VendorA)

The production quantity for the finished unscented liquid cleaning solution is 40-liters. IngredientC for unscented liquid cleaning solution is stored in inventory in 50-liter barrels and allocated in 50-liter increments. Two barrels of IngredientC are used to produce a barrel of unscented liquid cleaning solution.

Production sites

The Eastern United States facility manufactures equipment.

The Western United States facility manufactures liquid cleaning solutions.

Raw materials and finished products are stocked at the warehouse and distributed from the warehouse.

Warehouse facilities

The warehouse consists of the following zones:

Zone	Description
1	This zone stores parts and materials for manufacturing machine equipment and finished products. It consists of four aisles, five shelves, and 20 bins.
2	This zone stores barrels of liquid raw material and finished products. It consists of five aisles and 20 shelves.

Requirements

Cleaning equipment manufacturing

You identify the following requirements for manufacturing cleaning equipment:

- Production is Make to Stock and must be scheduled at an operational level.
- Machine equipment is produced on an assembly line. Scheduling must be based on production orders.
- Finished products must be packaged and shipped directly from the warehouse.
- To reduce delivery times and excess inventory, equipment must be produced as needed.
- The ability to schedule production must be based on resource capacity and the availability of required material.
- Production order operations must be scheduled to start only when capacity and materials are available at the same time and in the required quantities.

Liquid cleaning solution manufacturing

- Production is Make to Order and is scheduled at the job level Products must be manufactured in batches.
- Finished products must be packaged and shipped directly from the warehouse.
- You must be able to calculate the estimated consumption of ingredients and ensure that the amount is divisible by the number of units the raw material is available.
- Formula changes must be reviewed and approved. You must ensure that approved formulas cannot be deleted or edited. Approved formulas may be deactivated.
- An ingredient used to manufacture unscented cleaning solution is defined as a restricted product. You must be able to automatically print a product safety data sheet (PSDS) with the packing slip for any order that includes unscented cleaning solution.
- Production must be schedule to start by date and time according to the order that is specified by the production route.
- You must implement a scheduled Kanban rule that meets the following requirements:
 - Prevent overloading a work cell for scheduled Kanbans.
 - Visualize excess inventory in a supermarket.

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- Store products in supermarkets before they are consumed or shipped.
- You must link relevant financial dimension data to the inventory transactions at each site to ensure that you can trace profit and loss figures directly to East site and West site respectively.
- You must set up production operations for sub-contracting of Pine scent and Orange scent solution to VendorA to ensure that a purchase order is automatically created base on estimation of a production order.

Costing

- The price of raw materials used for manufacturing unscented cleaning solution must be tracked based upon commodity exchange pricing. The margin and cost multiplier must be set up for commodity traded raw material.
- You must set up cost calculation groups to ensure that indirect costs that originate in the manufacturing of finished goods are recognized and absorbed into the product cost.
- The production manager needs to set up picking list journals and BOM item consumption.

Reporting

- Production control parameters must be setup for reporting of automatic BOM and Route consumption.
- You must create reports that include information about cost records and categories for items, and calculation formulas for indirect costs.
- You must treat manufactured items as purchased items for cost roll-up purposes during BOM calculations and reporting.
- You must configure automatic route consumption in connection with the automatic running of Report as finished.

Inventory control

You must not be required to track the lot number for items when you enter inventory information into the system. Lot numbers for items must be entered when items are picked from inventory.

Issues

Users report the following issues:

- The production manager observes that items are being deducted from inventory two times on production jobs. A shop supervisor mistakenly registers the process for assembling batteries for the pressure washers to Registered as prepared. You must reschedule the process for a future date.
- Customer1 orders 20 barrels of unscented solution. The order is confirmed. Production must be scheduled to start on December 21 to meet the customers delivery deadline.
- User2 reports that costs for manufactured items are twice as high as expected.
- UserD reports that the formula for the liquid cleaning solution sometimes changes during production. You must enforce the policies regarding formula editing for current and future use.

Hotspot Question

You need to resolve the shop supervisor's issue.

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

NOTE: Each correct selection is worth one point.

Answer Area

Step	Action
Step 1	<div>▼</div> <div>Cancel the planning job.</div> <div>Set the job status to in progress.</div> <div>Set the job status to not planned.</div> <div>Issue a new Kanban card.</div>
Step 2	<div>▼</div> <div>Modify the time fence.</div> <div>Rerun the master plan.</div> <div>Enable auto-firming.</div>

Answer:

Answer Area

Step	Action
Step 1	<div>▼</div> <div>Cancel the planning job.</div> <div>Set the job status to in progress.</div> <div>Set the job status to not planned.</div> <div>Issue a new Kanban card.</div>
Step 2	<div>▼</div> <div>Modify the time fence.</div> <div>Rerun the master plan.</div> <div>Enable auto-firming.</div>

QUESTION 13
Case Study 2
Current environment
Products manufactured
 • Cleaning equipment

- floor cleaner
- pressure washers
- scrubbers
- vacuums
- Liquid cleaning solutions
 - No scent
 - Orange scent (subcontracted to a vendor named VendorA)
 - Pine scent (subcontracted to a vendor named VendorA)

The production quantity for the finished unscented liquid cleaning solution is 40-liters. IngredientC for unscented liquid cleaning solution is stored in inventory in 50-liter barrels and allocated in 50-liter increments. Two barrels of IngredientC are used to produce a barrel of unscented liquid cleaning solution.

Production sites

The Eastern United States facility manufactures equipment.

The Western United States facility manufactures liquid cleaning solutions.

Raw materials and finished products are stocked at the warehouse and distributed from the warehouse.

Warehouse facilities

The warehouse consists of the following zones:

Zone	Description
1	This zone stores parts and materials for manufacturing machine equipment and finished products. It consists of four aisles, five shelves, and 20 bins.
2	This zone stores barrels of liquid raw material and finished products. It consists of five aisles and 20 shelves.

Requirements

Cleaning equipment manufacturing

You identify the following requirements for manufacturing cleaning equipment:

- Production is Make to Stock and must be scheduled at an operational level.
- Machine equipment is produced on an assembly line. Scheduling must be based on production orders.
- Finished products must be packaged and shipped directly from the warehouse.
- To reduce delivery times and excess inventory, equipment must be produced as needed.
- The ability to schedule production must be based on resource capacity and the availability of required material.
- Production order operations must be scheduled to start only when capacity and materials are available at the same time and in the required quantities.

Liquid cleaning solution manufacturing

- Production is Make to Order and is scheduled at the job level. Products must be manufactured in batches.
- Finished products must be packaged and shipped directly from the warehouse.
- You must be able to calculate the estimated consumption of ingredients and ensure that the amount is divisible by the number of units the raw material is available.
- Formula changes must be reviewed and approved. You must ensure that approved formulas cannot be deleted or edited. Approved formulas may be deactivated.
- An ingredient used to manufacture unscented cleaning solution is defined as a restricted product. You must be able to automatically print a product safety data sheet (PSDS) with the packing slip for any order that includes unscented cleaning solution.
- Production must be scheduled to start by date and time according to the order that is specified by the production route.
- You must implement a scheduled Kanban rule that meets the following requirements:
 - Prevent overloading a work cell for scheduled Kanbans.
 - Visualize excess inventory in a supermarket.
 - Store products in supermarkets before they are consumed or shipped.
- You must link relevant financial dimension data to the inventory transactions at each site to ensure that you can trace profit and loss figures directly to East site and West site respectively.
- You must set up production operations for sub-contracting of Pine scent and Orange scent solution to VendorA to ensure that a purchase order is automatically created based on estimation of a production order.

Costing

- The price of raw materials used for manufacturing unscented cleaning solution must be tracked based upon commodity exchange pricing. The margin and cost multiplier must be set up for commodity traded raw material.
- You must set up cost calculation groups to ensure that indirect costs that originate in the manufacturing of finished goods are recognized and absorbed into the product cost.
- The production manager needs to set up picking list journals and BOM item consumption.

Reporting

- Production control parameters must be setup for reporting of automatic BOM and Route consumption.
- You must create reports that include information about cost records and categories for items, and calculation formulas for indirect costs.
- You must treat manufactured items as purchased items for cost roll-up purposes during BOM calculations and reporting.
- You must configure automatic route consumption in connection with the automatic running of Report as finished.

Inventory control

You must not be required to track the lot number for items when you enter inventory information into the system. Lot numbers for items must be entered when items are picked from inventory.

Issues

Users report the following issues:

- The production manager observes that items are being deducted from inventory two times on production jobs. A shop supervisor mistakenly registers the process for assembling batteries for the pressure washers to Registered as prepared. You must reschedule the process for a future date.
- Customer1 orders 20 barrels of unscented solution. The order is confirmed. Production must be scheduled to start on December 21 to meet the customers delivery deadline.
- User2 reports that costs for manufactured items are twice as high as expected.
- UserD reports that the formula for the liquid cleaning solution sometimes changes during production. You must enforce the policies regarding formula editing for current and future use.

Hotspot Question

You need to calculate estimated consumption of ingredients for liquid cleaning solution.

What is the consumption? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Consumption factor	Consumption in liters
Estimated consumption	<div><div></div><div>▼</div></div> <div>40 liters</div> <div>50 liters</div> <div>80 liters</div> <div>100 liters</div>
Round up to a multiple	<div><div></div><div>▼</div></div> <div>20 liters</div> <div>40 liters</div> <div>50 liters</div> <div>100 liters</div>
Excess consumption	<div><div></div><div>▼</div></div> <div>10 liters</div> <div>20 liters</div> <div>40 liters</div> <div>50 liters</div>

Answer:

Answer Area

Consumption factor	Consumption in liters
Estimated consumption	<div>▼</div> <div>40 liters</div> <div>50 liters</div> <div>80 liters</div> <div>100 liters</div>
Round up to a multiple	<div>▼</div> <div>20 liters</div> <div>40 liters</div> <div>50 liters</div> <div>100 liters</div>
Excess consumption	<div>▼</div> <div>10 liters</div> <div>20 liters</div> <div>40 liters</div> <div>50 liters</div>

QUESTION 14

You are the production supervisor at a chemical processing plant. You must track attributes for each batch of chemicals. Automated quality orders must be generated when a batch order for these chemicals is reported as finished. You need to ensure that the values of attributes are updated and tracked.

What three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Assign the attributes to the chemicals
- B. Assign the attributes to the appropriate test on the test group
- C. Create attribute types
- D. Set up batch attributes
- E. Create a test instrument for each attribute

Answer: ADE

QUESTION 15

A manufacturer produces HDMI cables. Typically, the item is manufactured.

The manufacturer will occasionally buy unbranded HDMI cables from a vendor in order to keep up with demand. The company must use the same item number whether they make or buy the item.

What should you do?

- A. Select route type as vendor on the route operation when the item is to be purchased.
- B. In default order settings, select Production for the default order type

- C. Create a new vendor resource when the item is to be purchased
- D. In default order settings, select Purchase for the default order type

Answer: A

QUESTION 16

A company produces paints and assembles bicycle frames.

You must account for paint drying time before assembly operations can begin. You need to set up the operation to encompass queue times.

Which two options can you use? Each correct answer presents part of solution.

NOTE: Each correct selection is worth one point.

- A. Enter a value in the queue time after field for the painting operation
- B. Make a resource group for each size and color and assign that group to the operation
- C. Enter a value in the transit time on the painting operation
- D. Enter a value in the queue time before field for the assembly operation
- E. Build capabilities for each resource related to color

Answer: AD

QUESTION 17

You maintain responsible resource calendars and production orders for a manufacturing company. All production resources use the same production calendar.

A machine in the facility is defective and must be closed for repairs for the next two days.

You need to configure the resource calendar to close the resource for production for the next two days.

What should you do?

- A. Navigate to the resource group.
Change the calendar to closed on the resource group.
- B. Navigate to the calendar used for production and close the next two days.
- C. Navigate to the resource.
Change the calendar to closed on the resource.
- D. Navigate to the resource and select Calendar deviations.
Set the calendar to closed for the next two days.

Answer: D

QUESTION 18

A manufacturing company is implementing Dynamics 365 Supply Chain Management. The company uses a standard costing model to value inventory.

During the setup of the system, all areas that impact the standard cost of the item must be configured correctly to calculate a complete standard cost by using routing, Bill of materials (BOM) and overhead burden.

You need to verify that all areas of the system are correctly configured.

Which object does NOT impact the standard cost of manufactured items?

- A. item group
- B. cost groups
- C. cost categories
- D. BOM formula

Answer: D

QUESTION 19

A company is looking to use Dynamics 365 Supply Chain Management.

The company is in the process of redesigning and retooling an existing manufacturing plant to group similar, cellular operations to improve efficiency and minimize wasted time between operations. They want to locate raw materials

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close to where they are needed without losing reorder visibility.

You need to set up their environment.

Which kind of production type should you implement?

- A. Lean manufacturing
- B. Process manufacturing
- C. Discrete manufacturing
- D. Manufacturing execution

Answer: A

QUESTION 20

A company is looking to use Dynamics 365 Supply Chain Management.

The company is in the process of redesigning and retooling an existing manufacturing plant to support a large long-running contract. They want to be able to forecast capacity to easily ramp up for additional products.

You need to set up the environment.

Which type of manufacturing should you implement?

- A. Lean
- B. Discrete
- C. Job shop
- D. Process

Answer: C