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Exam : MB-320

**Title : Microsoft Dynamics 365
Supply Chain Management,
Manufacturing**

Version : DEMO

1.Topic 1, CASE STUDY 1

This is a case study. **Case studies are not timed separately. You can use as much exam time as you would like to complete each case.** However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other question on this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question on this case study, click the **Next** button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an **All Information** tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the **Question** button to return to the question.

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

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.

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

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"/>	Automatic route consumption Never	Picking list Pick	End-mark picking list Yes No	Complete picking list journal Yes No	Create journal per
Operations	Use Manufacturing Execution parame... Yes <input checked="" type="checkbox"/>	References No <input checked="" type="checkbox"/>	Post route card now No <input checked="" type="checkbox"/>	Automatic BOM consumption	Physical reduction No <input checked="" type="checkbox"/>		
Report as finished	Open picking list journals	ROUTE CARD JOURNAL	End-mark route No <input checked="" type="checkbox"/>	Always Flushing Principle None	Pick negative No <input checked="" type="checkbox"/>		
Quantity validation		Route card Route		Post picking list now Yes <input checked="" type="checkbox"/>			

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"/>	Automatic route consumption Never	Picking list Pick	End-mark picking list Yes No	Complete picking list journal Yes No	Create journal per
Operations	Use Manufacturing Execution parame... Yes <input checked="" type="checkbox"/>	References No <input checked="" type="checkbox"/>	Post route card now No <input checked="" type="checkbox"/>	Automatic BOM consumption	Physical reduction No <input checked="" type="checkbox"/>		
Report as finished	Open picking list journals	ROUTE CARD JOURNAL	End-mark route No <input checked="" type="checkbox"/>	Always Flushing Principle None	Pick negative No <input checked="" type="checkbox"/>		
Quantity validation		Route card Route		Post picking list now Yes <input checked="" type="checkbox"/>			

2.HOTSPOT

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	<input type="text"/> Job Operation Bottleneck Capacity
Assembly	<input type="text"/> Job Operation Bottleneck Capacity
Subcontracting	<input type="text"/> Job Operation Bottleneck Capacity

Answer:

Answer Area

Production area	Scheduling option
Plastic	<input type="text" value=""/> ▼ Job Operation Bottleneck Capacity
Assembly	<input type="text" value=""/> ▼ Job Operation Bottleneck Capacity
Subcontracting	<input type="text" value=""/> ▼ Job Operation Bottleneck Capacity

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

What should you do?

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

Answer: A

4.DRAG DROP

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

Define the basis for calculating costs as absorption.

Create cost groups.

Create overhead calculation node for materials as surcharge and labor as rate for setup time.

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.

Create cost groups.

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.

Associate cost groups to items and resources.

5. You need to configure the system for plastic operations.

Which two parts should be manually reported as finished? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. unmachined plastic pieces
- B. mold tooling
- C. machined plastic pieces
- D.
- D. excess plastic

Answer: A,C