**MFCA IMPLEMENTATION IN SUPPLY CHAIN**

1. Is MFCA a universal management method?
   1. Yes
   2. No
2. MFCA can not only to be applied to a company but all the entities along the supply chain. State whether true or false.
   1. True
   2. False
3. WHow can we increase the environmental and economic impacts of MFCA?
   1. Better recycling strategy
   2. Reducing the overall staff strength of the company
   3. Widening the scope of MFCA
   4. None of the above
4. What is a key problem in applying MFCA along supply chains?
   1. Poor material handling
   2. Poor personnel management
   3. Lack of MFCA information sharing along supply chains
   4. All of the above
5. Is it possible to share quantity information only without sharing cost information between member companies in a supply chain?
   1. Yes
   2. No
6. The wider the scope of MFCA, the greater the merits. State whether true or false.
   1. True
   2. False
7. How many companies are involved in the overall production of security cameras in the case study?
   1. One
   2. Two
   3. Three
   4. Four
8. What is the primary source of waste generation in company B which is involved in the metal process?
   1. Sprue runner loss
   2. Resin loss
   3. Glass
   4. Metal Punching scrap
9. What is the system cost as calculated by MFCA?
   1. 12%
   2. 25%
   3. 77%
   4. 93%
10. What are the reasons for the large system cost?
    1. Large amount of material loss
    2. Large size of processing facilities
    3. Complex and difficult assembly work
    4. All of the above
11. A major source of material loss in the supply chain is the lack of recycling of sprue and runner losses. State whether true or false.
    1. True
    2. False
12. Are MFCA review meetings to be held periodically?
    1. Yes
    2. No
13. Who should attend the MFCA review meetings?
    1. Security personnel
    2. Managerial staff from company A
    3. Concerned personnel from all three companies
    4. All of the above
14. What methods should companies use to reduce material losses?
    1. Brainstorming
    2. Inductive improvement approach
    3. Psychiatric counseling
    4. Behavioural training
15. Is information sharing between companies along the supply chain very important?
    1. Yes
    2. No
16. Instead of implementing improvement measures right away, one should wait for the right timing in the production cycle. State whether true or false.
    1. True
    2. False
17. By what percentage was material loss reduced in metal punching process by setting the product layout at 30 degrees?
    1. 9%
    2. 5%
    3. 12.5%
    4. 17.8%
18. How does switching to stainless steel reduce material loss?
    1. By making the product look good
    2. By eliminating the need for coating
    3. By reducing system cost
    4. All of the above
19. Which of the following ways can we use to reduce wastage in the resin forming process?
    1. Reducing the personnel
    2. Reducing the number of gates from six to three
    3. Designing parts of unequal thickness
    4. All of the above
20. How can sprue runner loss be reduced?
    1. By reducing manufacturing capacity
    2. By increasing manufacturing capacity
    3. By recycling the sprue runner waste material
    4. None of the above
21. What is one key effect of implementation of MFCA?
    1. Obstructing the flow of information
    2. Promoting gender equality
    3. Visualising losses
    4. Spending more energy
22. Great achievements can be made by examining the whole supply chain. State whether true or false.
    1. True
    2. False
23. Which of the following can help reduce material loss along the supply chain?
    1. Design improvements
    2. Material changes
    3. Facility changes
    4. All of the above
24. How much material cost was reduced in Company B by replacing the metal mounting plate with a resin based alternative?
    1. 90%
    2. 45%
    3. 87%
    4. 23%
25. By home much did the system cost of company A reduce after company B moved to a resin based mounting plate?
    1. 24%
    2. 77%
    3. 70%
    4. 87%
26. Implementation of the improvement plans led to reduction in cost of metal press process as well as cost of assembly. State whether true or false.
    1. True
    2. False
27. Should MFCA be applied without examining the entire supply chain to identify potential material losses?
    1. Yes
    2. No
28. MFCA should be performed in isolation in just one department of a company. State whether true or false.
    1. True
    2. False
29. Can MFCA be applied to different industries?
    1. Yes
    2. No
30. A material flow model looks at the flow materials from the first to the last stage of production while looking for wastage at every stage. State whether true or false.
    1. True
    2. False

For the above questions, we have designed two formats which are as follows:

Type 1: Multiple Choice Questions or MCQs

* The question will have four possible answers to choose from
* There maybe just one, multiple or no correct answers for these questions

**Sample MCQ:**

**Q1:** Tell us which of the following is a benefit of good inventory management?

* Maintain optimum inventory levels (correct)
* Save time and energy (correct)
* Decrease efficiency and productivity (incorrect)
* Improve accuracy of the accuracy of inventory orders (correct)

**Q1:** What is the full form of DOL in manufacturing?

* Double On Time (incorrect)
* Date On Tag (incorrect)
* Direct On Line (correct)
* None of the above (incorrect)

**Sample True or False:**

**Q1:** Two bin system in manufacturing leads to over stocking of raw material. True or false?

* True
* False