**MFCA IMPLEMENTATION**

1. Which of the following constitute basic elements of MFCA?
   1. Material
   2. Flow
   3. Cost accounting
   4. All of the above
2. Should a company test a trial MFCA model and calculations before deploying it company wide?
   1. Yes
   2. No
3. What is the first step of implementing MFCA?
   1. Determining the target product lines and processes
   2. Building MFCA model
   3. Performing MFCA calculations
   4. None of the above
4. Select the attributes for selecting target product for trial MFCA modeling.
   1. Products of high volume
   2. Products with large amount of material losses
   3. Products whose manufacturing have a large environmental impact
   4. All of the above
5. What is the primary piece of information to be collected to implement MFCA?
   1. Input quantities
   2. Output quantities
   3. Disposal cost
   4. Cleaning cost
6. Which of the following does MFCA help with?
   1. Identifying problems
   2. Improvement planning
   3. Implementing improvement measures
   4. All of the above
7. What is the most important activity to be conducted before performing MFCA calculation?
   1. Manufacturing
   2. Energy audit
   3. Personnel attendance
   4. Input material data collection and compilation
8. Which of the following are possible causes of material losses in a production unit?
   1. On-site material losses arising from poor storage of input materials
   2. Improper specification of materials received from suppliers
   3. Specification mismatch of products ordered by customers
   4. All of the above
9. Investigation of input materials is optional. State whether true or false.
   1. True
   2. False
10. What does the material balance sheet track?
    1. Consumption of energy in the waste disposal process
    2. Water consumption in the cafeteria
    3. Monthly consumption of each raw material
    4. None of the above
11. MFCA can be applied to discrete set of processes along the production line to isolate loss generating centres and address them. State whether true or false.
    1. True
    2. False
12. Material losses can occur in the following stages of production.
    1. Raw material procurement
    2. Production process
    3. Final product inspection
    4. Customer outreach or marketing
13. An action plan to address all the material losses can be implemented only after summarising all the problems during the MFCA analysis. True or false?
    1. True
    2. False
14. Which of these departments does the MFCA management system collect data from?
    1. Sales management
    2. Accounting management
    3. Production management
    4. Marketing agency
15. MFCA can fit comfortable alongside which of the following production management methods?
    1. Total productive maintenance
    2. Industrial engineering
    3. Value stream mapping
    4. All of the above
16. The Toyota production system and MFCA aim to visualise which aspect of production?
    1. Energy use
    2. Material waste and losses
    3. Heat generation
    4. Quality checking
17. MFCA can be integrated into TPS by helping visualise the 7 MUDAs in production. State whether true or false.
    1. True
    2. False
18. Which key aspect of the Toyota Production System does MFCA compliment the most?
    1. Reduction of staff
    2. Reduction of material wastage before it is generated
    3. Reducing personnel training sessions
    4. Increasing energy use
19. MFCA visualizes and quantifies MUDA of waste material. State whether true or false.
    1. True
    2. False
20. Does MFCA provide inputs to implement KAIZEN in the manufacturing line?
    1. Yes
    2. No
21. What does setting of management indicators help with?
    1. Promoting improvement on-site and on day-to-day basis
    2. Improving environmental performance
    3. Increasing machine uptime
    4. Reducing maintenance cost
22. MFCA helps in assessment of return-on-investment (ROI) and other investments for decision making. State whether true or false.
    1. True
    2. False
23. MFCA information does not help in setting improvement indicators and promoting improvement planning. State whether true or false.
    1. True
    2. False
24. Which famous production system does MFCA integrate well with?
    1. Six sigma
    2. Oracle manufacturing cloud
    3. Toyota production system
    4. None of the above
25. Can MFCA be applied to processes outside the production unit like sourcing and supply chain?
    1. Yes
    2. No
26. How does MFCA help in product development?
    1. By reducing machine downtime
    2. By estimating improvement effects
    3. Resolving issues in older products and reducing waste
    4. None of the above
27. Can MFCA be applied in a small company?
    1. Yes
    2. No

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