

IC60 - Pre-Instructional Survey

Name: _____

Date: _____

1. Identify three levels within the manufacturing computer systems hierarchy.
 - a. Operating system, machine interface, Internet.
 - b. Planning, execution, device control.
 - c. MRP II, planning, enterprise requirements.
 - d. Inventory, movement, planning.

2. Identify four core functions within most MES systems.
 - a. Planning, receiving, production, rework.
 - b. Purchasing, sales, engineering, manufacturing
 - c. Work order management, Inventory management, data collection, planning system interface.
 - d. Forecasting, MRP, scheduling, data input.

3. Identify four support functions within most MES systems.
 - a. Forecasting, material requirements, maintenance, marketing.
 - b. Maintenance, time & attendance, documentation management, quality assurance.
 - c. Receiving, inspection, quality, logistics.
 - d. PLC, computer, input station, data collection.

4. What are four expected benefits of an MES system?
 - a. Reduced cycle times, reduced inventory, less paperwork, current data.
 - b. Increased sales, better ROI, improved capacity, better networking.
 - c. Improved morale, lower overhead, improved logistics, less product rejection.
 - d. Less inventory, employee reduction, fewer plants, higher prices.

5. What are four components of a requirements specification?
 - a. Programmable controller, computer, HMI, network.
 - b. Logistics, inventory, programming, rework.
 - c. As is condition, to be vision, hardware preferences, performance requirements.
 - d. Number of users, screen layouts, data entry formats, paperwork issues.

6. List four methods for system data entry.
 - a. Improved paperwork, receiving information, Intranet, invoicing.
 - b. Bar code scanning, voice entry, controller data transfer, vision systems.
 - c. Faster keying, ERP, trucking, material handling.
 - d. Logistics, maintenance, exceptions, revisions.

7. How important is return on investment criteria to MES implementation?
 - a. This should not be a consideration.
 - b. Sixty-day payback is normal.
 - c. Review ROI after system startup and debugging.
 - d. All systems should meet corporate investment guidelines.

8. What departments within the company should be consulted in designing an MES system?
 - a. Sales, engineering, manufacturing.
 - b. MIS, scheduling, purchasing, quality assurance.
 - c. Maintenance, dispatching, enterprise planning supervisor.
 - d. All of the above.

IC60 – Pre Instructional Survey Answer Sheet

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2. Identify four core functions within most MES systems.
 - c. Work order management, Inventory management, data collection, planning system interface.
3. Identify four support functions within many MES systems.
 - b. Maintenance, time & attendance, documentation management, quality assurance.
4. Name four expected benefits of an MES system.
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