



Freedom Technologies Manufacturing Execution System



Freedom Technologies delivers a flexible and comprehensive Manufacturing Execution System (MES) adaptable for all manufacturing environments. Error Proof® MES makes up-to-the minute manufacturing information available from the top floor to the shop floor which allows for a swift response to conditions and requirements. Error Proof® MES offers a foundation of real-time data and details for continuous improvement and decision support.



10370 Citation Dr
Suite 200
Brighton, M 48116

810.227.3737
sales@freedomcorp.com
www.freedomcorp.com



ERROR PROOF® MES SOLUTION

Manufacturing management requires timely and accurate information from the shop floor to make good operational decisions. Error Proof® MES supplies that good data by offering uninterrupted visibility into production operations, gaining a complete overall view of the shop floor.

Error Proof® MES also provides the shop floor control and visibility needed to effectively deal with multifaceted traceability requirements. Using real-time good data collected from the shop floor, Error Proof® MES links supplier information, lot numbers, serial numbers, time/date or other traceable data to the appropriate finished goods.

Error Proof® MES increases visibility into your manufacturing operations, capturing data at the point of execution and making it accessible by touch screen, mobile computers or browser.

Top Floor to the Shop Floor ~ Real Time Data and Details

Resource Allocation and Status:

- Collects and supplies information of non-labor assets: machines, materials, tools, support documentation.
- Indicates equipment state: operational, down, set-up, maintenance required.
- Maintains historical record of resource use.
- Tracks resources that assist in preparation: documents, tools, fixtures.
- Provides resource history to determine if adjustments are needed.

Dispatch of Production Units:

- Manages the flow of production units: jobs, orders, lots, work orders.
- Verifies at which operation and work center a unit should be at the present time.
- Presents unit at work center in the best sequence to be executed.
- Allows changes by supervisor in real time as events occur: rework, unplanned equipment maintenance, operator decision, etc.
- Tracks/traces rework and scrap processes.

Data Collection / Acquisition:

- Produces serialized part labels or accommodates direct part markings.
- Manages count to container verification and Earn-a-Label™ for shipping.
- Tracks data accuracy, inventory accuracy, labor cost and efficiency goals.
- Streamlines and/or automates data collection activities.
- Records and tracks quality data and sends group notification by email/text of any issues.
- Tracks, traces and records by lot or serial ID all parts/components on manufacturing floor.

Labor and User Management:

- Tracks personnel status in an up-to-the-minute time frame.
- Provides time and attendance availability.
- Tracks indirect activities such as material preparation or tool room work.
- Tracks user certifications for approval for operations.
- Tracks operator ID of the employee who executed production at an operation.
- Simplifies labor distribution entries for cells involving work by multiple employees; a work cell charge methodology is provided.
- Reports multiple parts simultaneously and the time charges will be allocated equally to each of the parts reported.

Quality Management:

- Stores and correlates all data to production unit including tracking and genealogy.
- Allows for immediate alert of specific conditions: when a device fails, a machine or line stops or quality problem found.
- Alerts allow immediate action to be taken to correct quality problems.
- Accommodates quality tracking of incoming materials per supplier, including data from tests performed.
- Sends quality alerts to an individual or group signaling a need for equipment maintenance, tooling calibration or other measurements.

Process Management:

- Monitors production and provides decision support to management and/or operators to correct and improve in-process activities.
- Activities may be intra-operational and focus specifically on machines or equipment being monitored.
- Tracks the component/part processes from one operation to the next.
- Makes necessary personnel aware of process changes which are outside acceptable tolerances.
- Interfaces with intelligent equipment to collect output data.

Product Tracking and Genealogy:

- Provides visibility to where work is at all times and its disposition and status.
- Includes status information such as: who is working on it, components by supplier, lot serial numbers, rework, alarms or other exceptions.
- Records materials used and operator/user work performed at each operation.
- Tracks/traces genealogy even if one child item is removed and a new one is added, history of parent/child relationship recorded.
- All production information stored with correlation to materials consumed.
- Multiple level traceability is available both forward and backward from receiving to finished goods.



*Freedom Technologies has one of the highest
levels of MES compliance.*