

Manufacturing Systems

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Often Industrial Engineers spend time analyzing and improving the main Manufacturing Systems. When you are involved in working process improvements at a manufacturing facility, it helps to have some familiarity with the main systems that constitute the overall business.

Here is a list of some of the main Manufacturing Systems:

- Production Control Systems (& Production Scheduling & Expediting)
- Production Reporting Systems (& daily performance reports to management)
- Inventory Control Systems
- Quality Control Systems & Product Testing
- Receiving & Inspection Systems
- Manufacturing Sequence Systems (production routings & product build details)
- Tooling, Tool Maintenance, Tool Design & Tool Fabrication Systems
- Conveyor Systems
- Material Handling Systems (forklifts & overhead cranes)
- Warehousing & Bulk Storage Systems
- Shipping Systems
- Transportation Systems (truck, rail, & cargo ship)
- Suppliers & Raw Material Systems
- Customer Support Systems & Sales/Marketing
- Product Returns System (from Customers & from Suppliers)
- Maintenance Systems & Capacity Analysis of critical equipment
- Facility Planning, Building Support & Site Maintenance Systems
- Energy Systems (buildings)
- Environmental Systems
- Security Systems
- Communications & Phone Systems
- Skills Training Systems
- Safety & Ergonomics Systems
- Human Resources & Organizational procedures
- Computer Systems & Computing Support (management of software & hardware)
- Internet & Wi-Fi Systems
- Accounting System & Cost Control Systems
- Business Records & Data Systems
- Management Reporting (high level reports above plant level)
- Long Range & Strategic Planning Systems