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Designing **Manufacturing Execution Systems** For **Factories Of The Future**

MES

Employee Owned. Customer Committed.



Manufacturing Execution Systems

Helping clients
meet their goals
since 1981

Our manufacturing
execution systems
solutions

Our **Manufacturing Execution Systems Team** has a firm foundation in delivering value-driven solutions for our client's deeply rooted in manufacturing & quality experience. We excel at highly specialized, challenging projects utilizing first-hand knowledge of best practices within the life science industry.

Our continued success comes from actively listening to our clients' requirements & developing solutions to achieve their goals on the journey to digital transformation.

Comprehensive Consulting

- 🔗 *Implementation Roadmap* - Develop detailed plan & timeline for MES solution, outlining the various phases, milestones, and resources required.
- 🔗 *Needs Assessment* - Gather insights into pain points that could benefit from MES.
 - User Requirements
 - IT/OT Infrastructure Requirements
 - Regulatory Compliance Requirements
 - Operational Requirements
- 🔗 *RFP Development*
- 🔗 *Cost/Benefit Analysis* - Cost to implement & maintain/ROI & potential savings.
- 🔗 *GAP Analysis* - Compare current vs desired state & identify gaps and opportunities for improvement through MES solution.
- 🔗 *Risk Assessment & Mitigation* - Identify potential risks/challenges associated with MES implementation & develop strategies to effectively mitigate.
- 🔗 *Vendor Evaluation* - Evaluate different MES vendor suitability for non-existing.

Customized Design Solutions

- 🔗 *Software Implementation* - MES Installation, Configuration & Integration with existing systems (ERP, DCS, Historian, LIMS, shop floor equipment).
- 🔗 *Data Collection & Integration* - Implement data collection mechanisms to gather real-time production data from the shop floor.
- 🔗 *Production Monitoring & Control* - Enable real-time monitoring of production processes, identify bottlenecks, & facilitate timely decision-making.
- 🔗 *Electronic Batch Record* - Manufacturing & Quality focused design enabling lean manufacturing, operational efficiency & improved compliance.
- 🔗 *Inventory & Material Management* - Track raw materials, work-in-progress, & finished goods inventory levels to optimize material usage & reduce waste.
- 🔗 *Equipment Management* - Track equipment status & improve operational efficiency.
- 🔗 *Continuous Improvement & Optimization* - Assist with continuous improvement initiatives & applying data-driven approaches to optimize production processes.
- 🔗 *Data Integrity* - Maintenance & assurance of data accuracy & consistency throughout lifecycle.
- 🔗 *Quality & Compliance Management* - Achieve Review/Release By Exception with strict adherence to industry standards & regulations.
- 🔗 *Scalability & Upgrades* - Ensure MES solution accommodates future growth & expansion while providing updates & upgrades to keep the system current.

Turn-Key Delivery

- 🔗 *Full System Installation, Validation & Qualification* - Ensure MES solution adheres to industry standards & regulations.
- 🔗 *Shop Floor Visualization* - Provide visual displays & dashboards to give a clear view of the shop floor status & performance metrics.
- 🔗 *Performance Reporting & Analytics* - Generate reports & data analytics to provide insights into production performance, efficiency, & potential areas for improving KPIs
- 🔗 *Mobility & Remote Access* - Provide apps or remote access solutions to allow managers & supervisors to monitor production remotely.
- 🔗 *Stakeholder Communication/Transparency* - Inform on progress, decisions, & potential impacts on the organization.
- 🔗 *Develop, Train, & Support Digital Operations Teams* - Offer training programs to educate users & management on how to use the MES effectively. Provide ongoing technical support & maintenance services to ensure smooth operations.
 - Manufacturing, Quality, & IT