Manufacturing Execution Systems (MES)

Delivering Excellence in Automation, MES and Digital Manufacturing Direct to the Life Science Industry

Powering Patient Health
www.zenithtechnologies.com
Manufacturing Execution Systems (MES)

+ End to end MES Solutions
+ Global experience and vendor independance
+ Skilled global MES resource pool
+ Manufacturing IT support
+ Project implementation excellence

Driving productivity and efficiency for the Life Science Industry

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Industry Challenges

01 FDA scrutiny on data integrity
02 Global standardization
03 The drive towards Industry 4.0
04 Preventing 483 Warning Letters
05 Reduce costs and increase productivity
06 Visibility of production
07 Costs & restrictions associated with legacy or in-house systems
08 Delays in dealing with atypical events & errors
09 Lack of transparency and traceability
10 Unexplained downtime of equipment
11 Significant time to review
12 Data entry & transcription errors on the rise
13 Lack of access to real time data
14 Quality issues arising post production

MES - An Introduction

Industry drivers such as the FDA’s focus on data integrity, the drive towards Industry 4.0, improving compliance and operational efficiencies are pushing more and more life science companies down the road of MES excellence.

An MES solution can indeed meet many of the identified challenges, however, implementing MES is fraught with its own difficulties and many projects deliver insufficient returns, or fail altogether, due to a lack of foresight and understanding of what is required.

Regardless of the challenges to implement, MES Solutions are proven to provide some of the best returns of any information technology system investment — but only when correctly implemented! Finding a reliable and experienced integration and support partner with the right experience and resources to aid companies on their MES journey can be a defining factor in the successful implementation of any MES solution.

With over 20 years of system implementation and site support experience, Zenith has a vast wealth of knowledge and understanding of the Life Science Industry. We understand our customers’ needs and challenges, as well as the potential pitfalls and roadblocks during project implementations. Zenith Technologies global presence and knowledge of both the MES market and the Life Science industry, as well as our extensive experience in deploying and supporting disparate MES technologies, gives Zenith the capability to deliver value across the entire lifecycle of an MES Solution.

> Core MES/MOM Functions
Electronic Batch Record, Weigh & Dispense, OEE, Performance Monitoring Solutions

> Skilled Resources
Technical Consultants, Programme & Project Managers, Product SMEs, Technical Leads, MES Engineers & Testers, CSV specialists, and Software Development Engineers

> Consultancy Services

> Project Implementation Services
Program/Project Management, Design–Build–Qualify both the MES Application and the Plant & Process Model, Resource Management, Proven Project Methodologies, Operational Readiness, Training Programs, and Knowledge Capture.

> Operational Sustaining Services
Site Managed Service Model: 24/7 Support, Frontline Support, Consultancy, CSV, Change Controls, Training, Project Management, Knowledge capture, KPI tracking & reporting, Continuous Improvement program, Lifecycle management, Supplemental support for Capital Projects, Permanent Audit Readiness, Support across all Manufacturing systems (DCS, MES, etc), and access to global resources & knowledge base

Remote IT Manufacturing Support Model: Remote provision of managed service model, ITIL Methodology providing 24/7 Multi-platform Multi-site support, replace or supplement site managed services, Faster response times to incidents, Ability to increase and decrease team size.

MES implementation and support accounts for over a third of Zenith’s business outputs. In the MES arena we provide business knowledge and expertise, project support, solution realisation and sustainment services, world class resources, and practical application of our expertise.

Our Manufacturing IT Support model using the ITIL Methodology, has been proven on a global scale, with our engineers supporting 20+ different technologies across 60+ sites for a single client.

We are vendor independent and have vast experience in a wide range of MES software solutions. Our MES expertise encompasses but is not limited to:

Werum PAS-X | AspenTech AMS | Emerson Syncade | LZ SFOL Lifescience | FullFact OEE | Rockwell PMX | Mettler Toledo FreeWeigh & FormWeigh

We have seen Life Science manufacturers achieving gains of >25% in productivity, as well as reducing the time and stress associated with managing manufacturing using paper and hybrid systems.
MEETING YOUR CHALLENGES - MES PROVIDES...

- Increased productivity (increased yield, reduced variance and reduced cycle times)
- Compliance with industry regulations, standards, and guidances
- Real time problem diagnosis (identify failure trends quicker)
- Reduce operating costs and downtime
- Increased performance levels, reduced time to market, quality assurance, OEE
- Works order tracking and traceability
- Improved Data Integrity and a reduction in errors and paper trails
- Real-time view of all manufacturing processes
- Enforce workflows and operating procedures
- Improved management of information

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ZENITH TECHNOLOGIES PROVIDES...

• Guidance in positioning MES correctly and identifying the right stakeholders
• Help in developing a business case and a clear return on investment
• An End to End MES solution
• Governance that can manage the complexity of an MES program or project
• Horizontal Programs for Manufacturing
• Project Implementation Methodologies that work
• Efficient resource management for the entirety of the project
• Seamless transition to sustaining operational support
• Managing the business change and cultural impact
• Ensuring best practice project implementation
• Transferring project knowledge to site sustaining services
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