



BROCHURE

Infor Manufacturing Execution System (MES)

Delivering digital transformation of manufacturing operations across your enterprise to improve productivity, quality, and innovation

Manufacturing organizations need to be more connected, agile, and responsive to remain competitive in today's fast-paced environment. However, valuable manufacturing data is often siloed in departmental applications or paper-based systems, limiting agility and reducing opportunities for improvement and innovation.

Real-time visibility across operations

Infor MES is a comprehensive solution for manufacturing's digital transformation. The MES system brings production, quality, inventory, and maintenance data together in one place, providing real-time visibility and control across operations.

Connecting to ERP, Infor MES enables detailed management of production operations and inventory, instant bi-directional traceability, and real-time monitoring of plant performance.

Organizations looking to further accelerate their digital transformation should consider extending the MES functionality with quality, material handling, maintenance, and energy.

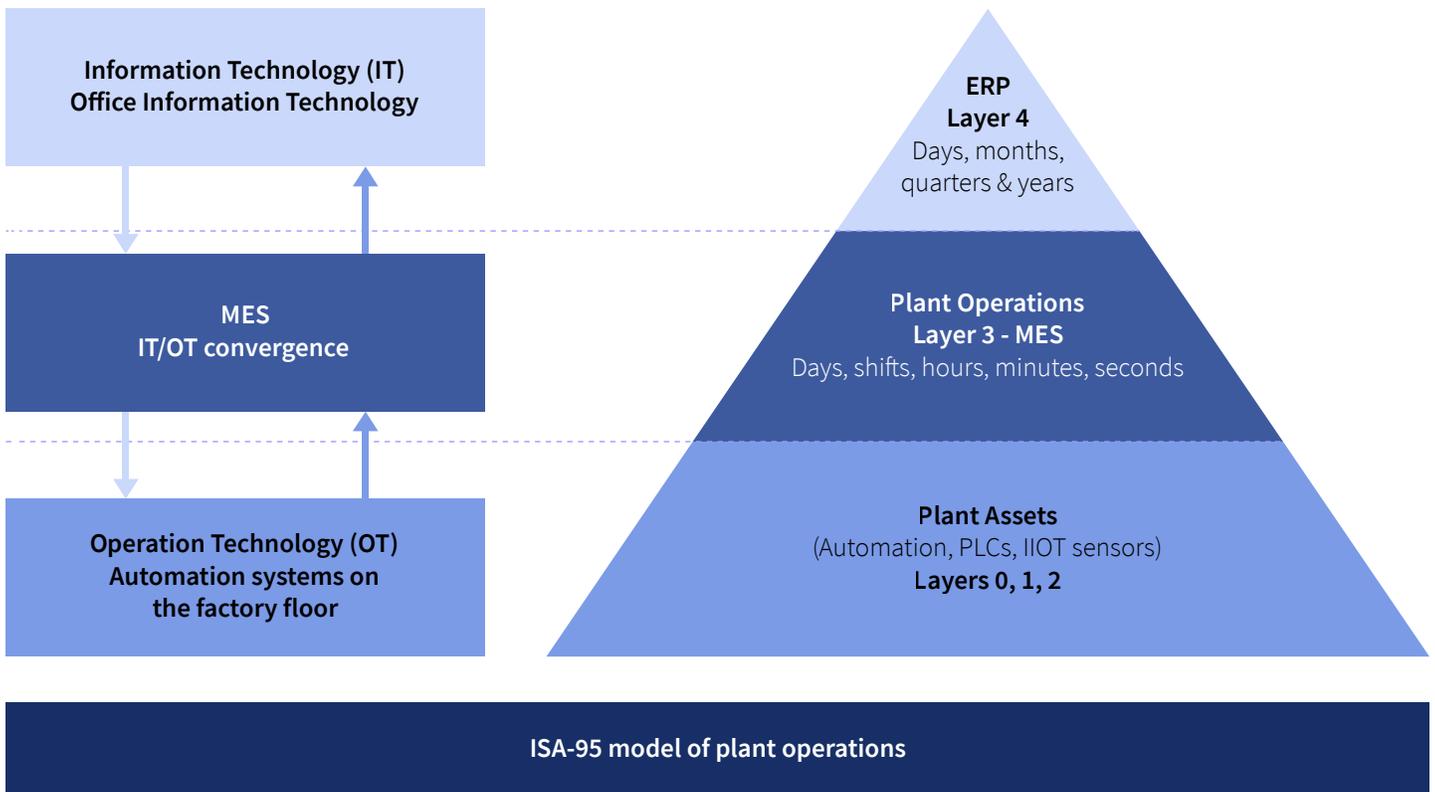
With access to "one source of truth," Infor MES drives better decision making, improving productivity, quality, compliance, and innovation.

What is MES software?

According to [Gartner](#)[®], manufacturing execution systems (MES) are used "to manage, monitor, and synchronize the execution of real-time, physical processes involved in transforming raw materials into intermediate and/or finished goods."

As defined in the ISA-95 model of plant automation, MES runs independently from ERP but synchronizes with it. MES also connects to PLCs, machines, and plant equipment.

MES plays a crucial role in the success of smart factories and digital manufacturing. By providing real-time visibility and control over production operations, MES enables organizations to improve efficiency, reduce downtime, and optimize their overall performance.



Empower shop floor users

Experience shows that when operators are empowered with the right tools and information, they can help to drive productivity, quality, and innovation.

Infor MES is designed with factory users in mind. Easy to use, it guides operators through the process with touch-friendly screens that error-proof operations. Real-time and highly visual, it gives operators instant visibility into production operations, process, and performance data so they can quickly and efficiently react to issues.

Adoption of MES by shop floor users, particularly operators, is critical to the success of digital transformation in manufacturing.

Standardize business processes

With Infor MES, organizations can standardize and enforce their business processes and escalations. Implementing standardized KPIs to measure performance consistently becomes possible, enabling efficient and sustainable continuous improvement.

PLM + ERP + MES =

Intelligent manufacturing enterprise

To achieve a truly modern and intelligent manufacturing enterprise, it is essential to remove outdated legacy applications and integrate the critical systems of product lifecycle management (PLM), enterprise resource planning (ERP), and manufacturing execution systems (MES). By leveraging the comprehensive capabilities and advanced connectivity features of Infor MES, organizations can connect the top floor to the shop floor, unlocking the full potential of Infor's cutting-edge AI and ML technologies.

Infor MES is the foundation of digital transformation in manufacturing operations. Integrating PLM and ERP with MES completes the journey.

Infor MES functionality

Production & inventory

Enable operators to manage and control the execution of production orders scheduled from ERP with high precision. With bi-directional traceability, organizations can track inventory throughout the manufacturing process and print labels for materials or batches produced. MES directly captures real-time data, providing operators and shift managers with immediate feedback on performance, including standard KPIs such as OEE.

Quality

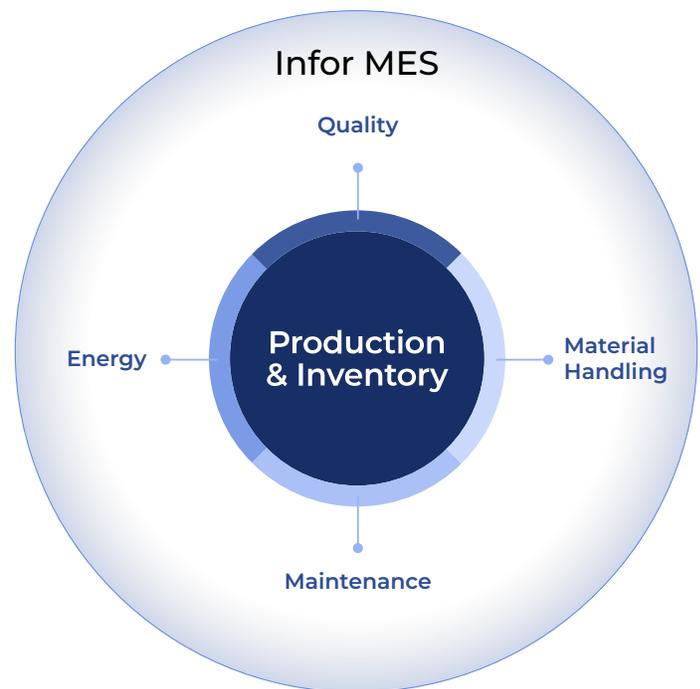
Prevent small problems from turning into costly concerns, reduce waste and rework, and improve customer satisfaction. With the quality inspection plan, Infor MES alerts users when a quality check is due and enables the import of quality data from gauges, files, or manual input. Visual quality checks can also be performed and operators can ensure conformance with statistical process control (SPC) standards.

Organizations can maintain high levels of quality and safety with the powerful quality management features of the MES, while meeting regulatory requirements such as FDA 21 CFR Part 11.

Material handling

Improve the ability to respond to customer demand while reducing waste and cash tied up in inventory. With Infor MES, organizations can reduce work in progress (WIP) on the shop floor and enable "pull operations" throughout the factory by managing goods-in and customer shipments, and moving materials between warehouses, supermarkets, and production.

In multi-tenant cloud settings where deliveries and shipments are downloaded from ERP into Infor MES, the material handling functionality enables warehouses to receive and ship materials even when ERP is offline. This functionality ensures that operations can continue uninterrupted, even in the event of an ERP outage. When the connection is available again, Infor MES automatically synchronizes data with ERP, ensuring that all systems are up-to-date and accurate.



Maintenance

Maximize asset utilization. Planners have real-time visibility into the available assets and when maintenance work is scheduled. Operators perform autonomous maintenance tasks on assets they're using, reducing downtime and improving productivity. In the event of a breakdown, maintenance teams can respond faster and get production back up and running smoothly.

As it records assets usage data, such as production counts or cycle time, Infor MES can trigger condition-based maintenance operations, preventing breakdowns and eliminating unnecessary routine maintenance.

Energy

Improve energy usage across the factory. Infor MES monitors and analyzes energy usage from various sources, including electricity, gas, water, and more. By communicating directly with energy meters and collecting real-time data, the system can automatically detect when energy is being used unnecessarily, manage peak loads, and correlate usage against production for cost allocation..

Why should you choose Infor MES?



Efficiency

Provide operators with all the necessary information in one place and across all devices. Save managers time and boost efficiency with morning meeting dashboards.



Single source of truth

Bring production, inventory, quality, and maintenance operations under one roof to create a single source of truth and rationalize manufacturing IT.



Data-driven decisions

Enhance decision-making with powerful integrated reporting and analytics, including key performance indicators (KPIs) such as OEE, FTTQ, and MTBF. Drill down into the data, choose how to visualize it, and leverage multisite reporting.



Adaptability

Take control of the MES. Easily configure connections to machines, production lines, and assets. Save reports to create visual dashboards.



Fast time-to-value

Accelerate time to value with an out-of-the-box solution, requiring close to zero customization. The application adapts through the configuration of master data and easily integrates with ERP and other systems.



24/7 resilience

Ensure "always-on" operations with minimal downtime to multi-tenant cloud ERP.

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