Proficy Manufacturing Execution Systems (MES)

Reach manufacturing excellence through IoT insights and intelligence

Becoming a digital industrial manufacturing company

You're tasked with meeting production targets while keeping costs and risk under control. It's up to you to find the capacity needed to produce what the market wants, when it wants it, and at increasingly higher quality—even when it means quickly changing lines and entire facilities over to new products.

Products can be conceived, developed, and sold over the Internet in a matter of weeks or days, meaning your organization is probably already competing on your ability to manufacture to order.

You currently rely on the expertise of your people to achieve production targets. But long-term attrition of operational "know-how" as your people with intimate equipment knowledge exit the workforce is inevitable.

You have automated select activities, primarily by purchasing point-product solutions. But production data is all too often gathered manually and isolated in siloed systems and different formats. As a result, you may lack the comprehensive visibility into equipment, people, processes, and materials that would afford you the flexibility to make the goods people want to buy today.

Business challenges

- **It's difficult to start and stay ahead** when no two facilities are the same, and you lack a common system for gathering and analyzing data

- **Your current systems don't provide the visibility you need to take the right actions** when separate systems for inventory, production, downtime, and quality all relay data manually, slowing the process and introducing the potential for human errors

- **Your plants can't keep pace with customer demands** without advanced warning of changing preferences derived from sophisticated analysis of all available data and agility to leverage those insights

What if you could...

- Use the data your equipment is already generating to monitor production, predict order performance, detect downtime, capture waste, and more then automatically aggregate and summarize this data for powerful digital intelligence in real time?

- Get value fast by using out-of-the-box mobile operator screens and extend or customize them to meet the needs of your people and facility?

- Use this foundation to immediately begin delivering actionable insights to the right people at the right time—giving your people all the information they need to quickly optimize production?

- Use these digital industrial applications to adapt facilities with the agility to continuously change to meet customer demands?

# Proficy Manufacturing Execution Systems

Proficy Manufacturing Execution Systems (Proficy MES) is a solution suite that can transform your manufacturing business through insights and intelligence powered by data integration, the Industrial Internet of Things (IIoT), machine learning, and predictive analytics. By bringing together the digital world with the physical world of manufacturing, Proficy MES can deliver holistic performance management for today's connected enterprise.

Proficy MES provides the tools to successfully transition to a digitally driven model:

- Track data across plants, equipment, materials, and people

- Specify metrics to track across all your equipment

- Use intuitive browser-based, out-of-the-box screens as a digital cockpit for fast time to value

- Create custom views within role-specific dashboards

- Create the necessary visibility to quickly generate a new bill of materials, reroute components, change equipment schedules, and re-assign employees appropriately

- Monitor production and catch deviations and make adjustments to avoid wasted materials

- Predict overruns and shortfalls before they happen then reschedule your orders to optimize based on material, equipment and personnel availability

- Understand your operations better with traceability across the entire scope of the production process

- Leverage innovation best practices

Learn more about the benefits and outcomes you can realize with Proficy MES.

[FIND OUT MORE]
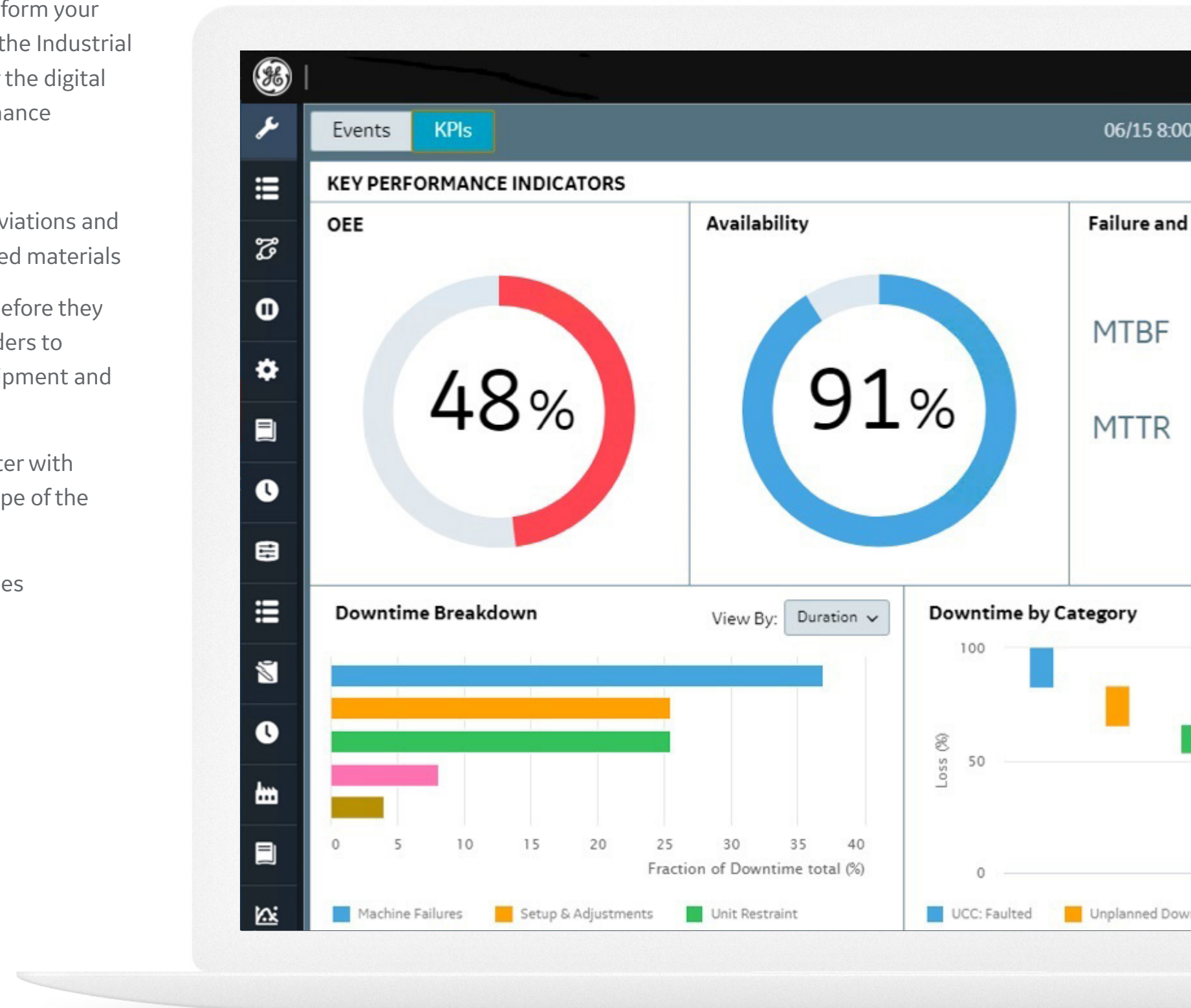
# Unlock unprecedented efficiency and manufacturing optimization

Reduce costs

By aligning resources, energy, and efficiency management your manufacturing operations can reduce inventory, identify costly production gaps, lower energy and utility waste, and gain insight into throughput and critical processes.
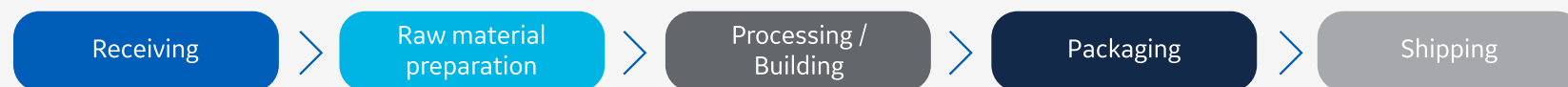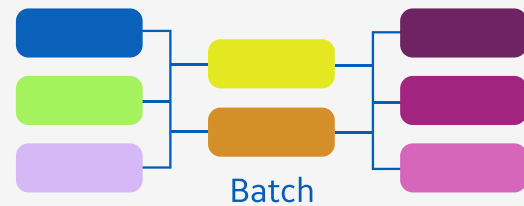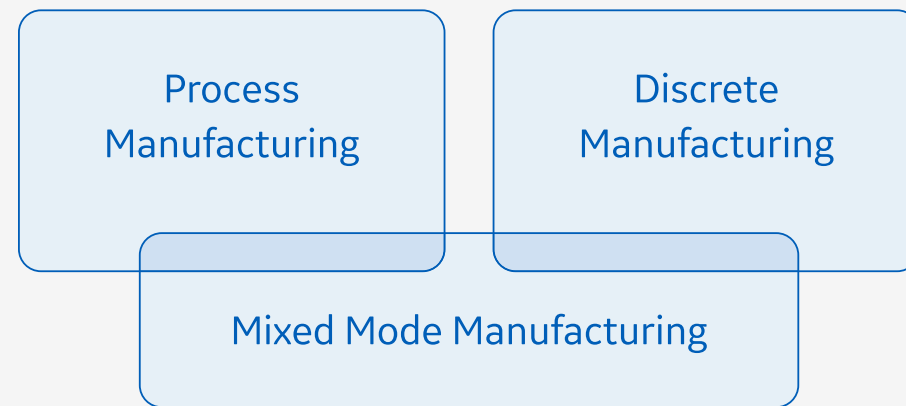
Improve quality

Capture robust quality data and related traceability information while, at the same time, performing analysis on process-oriented data and product-oriented data, and classifying materials as non-conforming, out-of-spec, or related to recalls.

Speed production

Improve on-time delivery performance and respond optimally and with agility to late stage changes, gain up-to-date visibility of all work-in-progress orders, get more successful new product instructions (NPIs), and shorten design-to-delivery cycles.
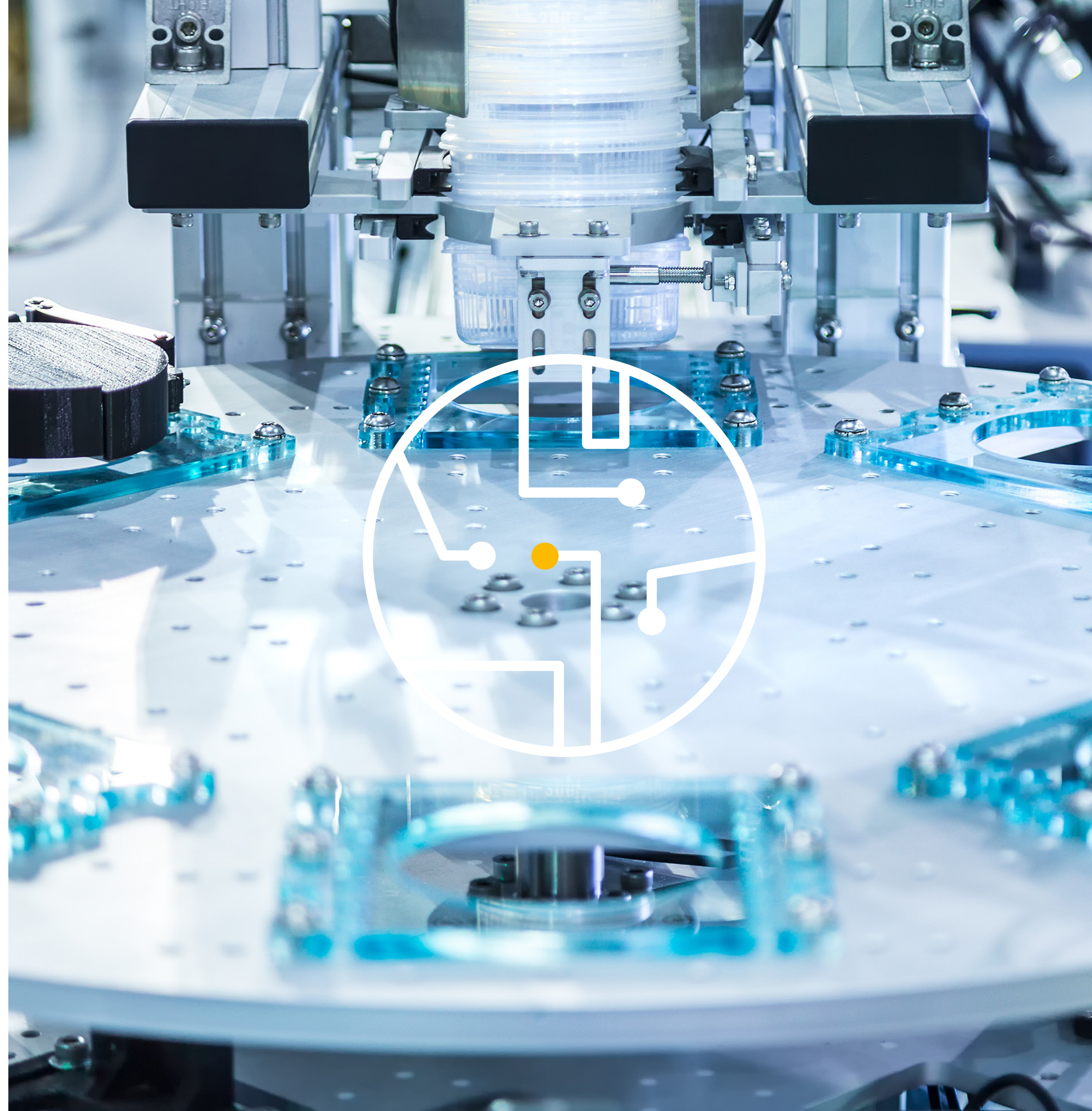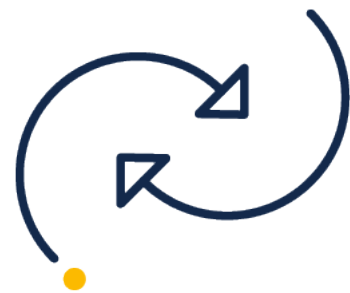
Reduce costs and increase visibility with one seamless MES for all types of manufacturing

Process Manufacturing

Discrete Manufacturing

Mixed Mode Manufacturing

Batch

Receiving → Raw material preparation → Processing / Building → Packaging → Shipping

Most reviewed MES on Gartner Peer Insights

Gartner Peer Insights reviews are unedited independent comments form our customers about their experience with our Manufacturing Execution System (MES) product.

We appreciate the overwhelming response from our customers and invite you to read their reviews as you explore the right solution for your organizations.

GE Digital Receives Top Scores in Gartner MES Report

Gartner Critical Capabilities for Manufacturing Execution System Report

When it comes to MES Critical Capabilities and MES Use Cases, GE Digital has scored at the top.

#1 in the following MES Critical Capabilities:

- Process Quality Management
- Data Management/Data Collection
- Production Equipment Integration
- Enterprise Integration Architecture

The report details how MES is foundational to smart factories and digital manufacturing and places us among the four highest vendors across all use cases; first in Continuous Process Manufacturing and second in Batch / Repetitive Flow Manufacturing and Highly Regulated Industries use cases.

At GE Digital, we're proud to offer our leading MES solution and help our customers around the world.

Align your manufacturing requirements with the critical capabilities from GE Digital that you need in your business.

Gartner

Continuous Process Manufacturing Use Case
1st of 19 vendors (4.07/5.00)

Batch / Repetitive Flow Manufacturing Use Case
2nd of 19 vendors (4.00/5.00)

Highly Regulated Industries Use Case
2nd of 19 vendors (4.11/5.00)

Complex Discrete Manufacturing Use Case
4th of 19 vendors (4.11/5.00)

Source: Gartner, Critical Capabilities for Manufacturing Execution Systems, Rick Franzosa, Christian Hestermann, 11 May 2021

Read the Gartner Report

The World's First MES for Your Entire Enterprise

Drive results with one MES for Process, Discrete, and Mixed Manufacturing

Proficy MES is a powerful operations management solution for process, discrete, and mixed manufacturing environment manufacturers that collects and analyzes data and helps manage highly automated fast-moving processes as well as slower moving, labor-intensive jobs. It automates and integrates the information related to activities for managing production execution and optimizing performance holistically, helping to balance the trade-offs between competing priorities of production operations.

## Proficy MES allows you to:

Increase efficiency with customization

With a completely browser based and mobile ready UX, Proficy MES offers both operators and supervisors a personalized, modern user experience.

Reduce rework

With increased visibility into data and quality, you can reduce rework and the risk of errors, while staying current on recall information.

Turn data into value

Gain enterprise-wide visibility into your data to improve analysis and compliance, while at the same time reducing IT costs and footprint. Additionally, Proficy MES out-of-the-box persona based UIs run in our no-code rapid application development environment called Proficy Operations Hub so you can easily extend standard visualizations with your own to meet your needs.
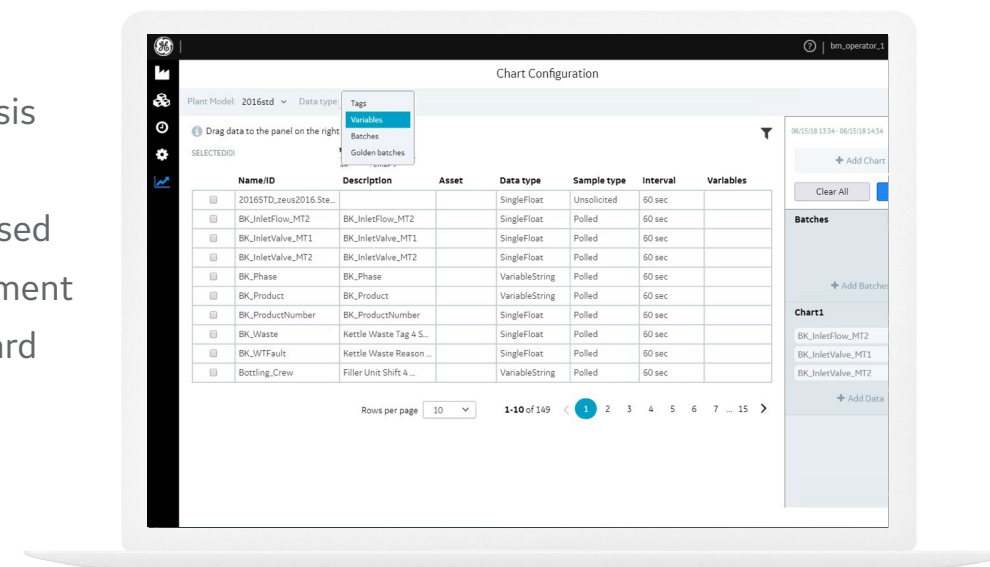
Capabilities of Proficy MES

- Efficiency Management

- Quality Management

- Production Management
  (Non Serialized and Serialized)

- Batch and Process Analysis

- Scheduling

- Digital Operations: Centralized,
  Remote and Mobile

- Hybrid Cloud Industrial Data
  Management for Analysis and Reporting

- Industrial Advanced Analytics

- Dynamic, Interactive Work
  Process Management

Efficiency Management

With Proficy MES, you can better utilize plant assets by leveraging a comprehensive view of Overall Equipment Effectiveness (OEE).

Proficy MES tracks and monitors OEE and other critical key performance indicators such as downtime, waste, and production counts, MTBF, MTTR, and more, all by reading signals directly from the equipment or, if not available, via manual inputs.

Our proven efficiency management capabilities provide drill-down functionality, making it ideal for managers trying to increase production throughput without adding equipment, people, or material costs. Manufacturers can correlate events and reasons to actual production parameters in context of shift, crew, order or any other event that makes sense for your facility. Standard and ad-hoc reports and dashboards improve real-time decisions, supporting Lean and other continuous improvement programs.

Proficy MES allows you to:

Identify and improve areas that are causing operational inefficiencies

Use Proficy MES to detect and minimize scheduled and unscheduled downtime events, reduce waste and rework, and improve machine run-time effectiveness.

Perform root cause analyses to make data-driven decisions

Gain insight into production operations by shift, equipment and products. Proficy MES helps you evaluate operations over any period of time—from real-time to annual summaries. Furthermore, link capital expenditures to expected plant profitability improvements.

Manage production operations in real-time through comprehensive reporting

Track uptime, downtime and overall plant and machine efficiencies through web-based KPIs. You can schedule reports for all decision-makers – from operators to plant managers. Get notified on exceptions to desired operations to make real-time changes.
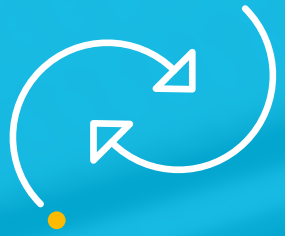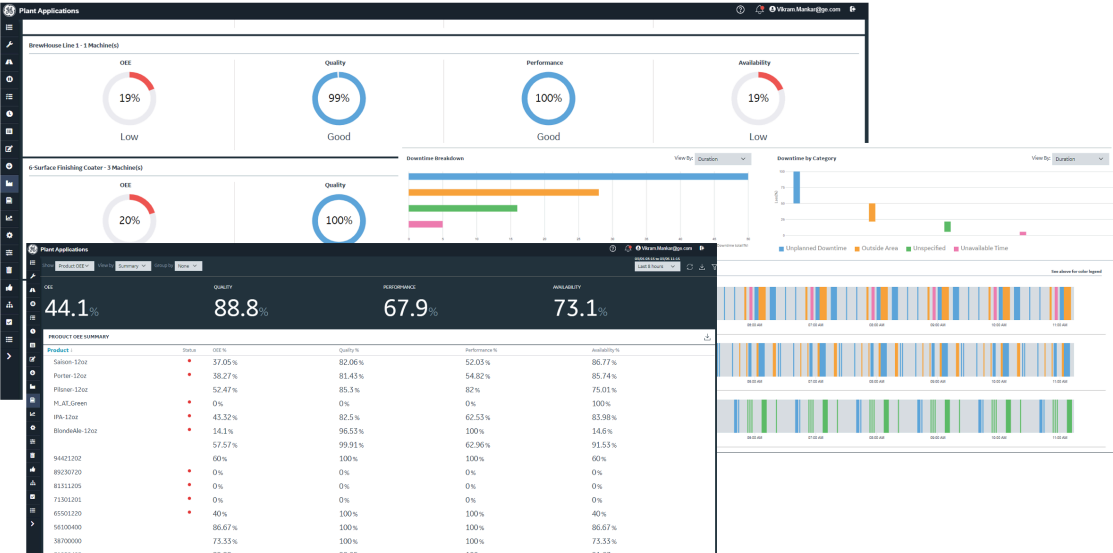
Increase Your OEE with Proficy MES

- Critical KPIs: OEE, downtime, waste, production counts, and more

- Exceptional connectivity: connects to various historians to capture equipment signals to detect data related to downtime, quality and production

- Root cause analysis by automatically or manually associating events with causes

- Ad-hoc reports and dashboards for real-time decision-making

- Ability to summarize and analyze data by context

Quality Management

Proficy MES ensures consistent and integrated quality control, delivering capabilities that GE developed in partnership with the world's largest manufacturers to support their best practices to reduce variability and ease compliance.

GE Digital helps you increase product quality by lowering waste, scrap and product recall costs. Consistent product quality improves all aspects of production operations and customer satisfaction, dramatically improving plant performance and profitability. Proficy MES is an ideal solution for manufacturers launching Lean, Right First Time, Six Sigma and other process improvement initiatives.

Proficy MES allows you to:

**Increase product and process quality and consistency**

Proficy MES ensures consistent quality in your products, helping you define the product specifications and recipes required for quality production and providing real-time trends, statistics, SPC, and notifications to control quality levels. Our solution integrates process, inspection, and test data from both manual and automated sources and houses this information in one, integrated place – including support for 21 CFR Part 11. Additionally, you can attach operator comments including videos and pictures you can annotate directly on your mobile device, specifications, recipes, and procedure documents to this information.

Lower costs of production by reducing waste and rejects

Capture reasons for out-of-spec conditions to resolve quality issues faster. With Proficy MES, you can reduce rejects and downgrades, decrease customer complaints and returns, and speed compliance with ISO, 21 CFR Part 11 and other requirements.

Maintain consistent, high quality production through real-time monitoring and visibility

Create ad-hoc quality reports to research quality issues based on performance improvement and proven methodologies. Calculate quality KPIs and publish them to the web – and notify and alert personnel to out-of-spec conditions for the fastest resolution. Identify your "golden batch" and compare it to the current running orders to quickly identify deviations.
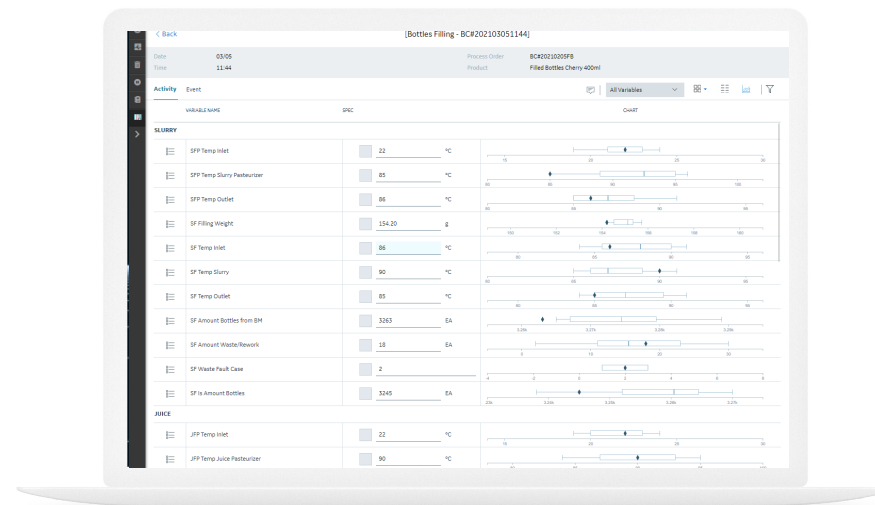
Improve Consistency and Ease Compliance

- Real-time trends, statistics, SPC and notifications to control quality without slowing manufacturing speed

- Integrated process, inspection, and test data from both manual and automated sources

- Related information stored, including operators' comments, specifications, recipes and procedure documents – supporting 21 CFR Part 11 and eSignature

- Define the product specifications and recipes that are required for quality production

- Capture reasons for out-of-spec conditions

- Integrate process and laboratory data

- Trend and analyze quality data across shifts, work cells and products to identify root cause in problem areas

- Integrate log-sheet information for real-time performance and quality management

- Improve consistency, drive out variability with simple SPC/SQC

Non-Serialized and Serialized Production Management

Proficy MES manages both non-serialized and serialized production operations by providing insight into how products actually flow through the plant, developing product genealogy reports and making scheduling changes to reduce excess inventory.

Meeting the needs of diverse production management, Proficy MES oversees production operations, supporting production schedule execution and product tracking against scheduled completion times with adjustments to optimize efficiencies. Our solution supports full traceability of individual products through every step of the manufacturing process allowing for auditable genealogy and production reporting.

Proficy MES allows you to:

Improve operational efficiency by gaining knowledge and control over real-time production operations
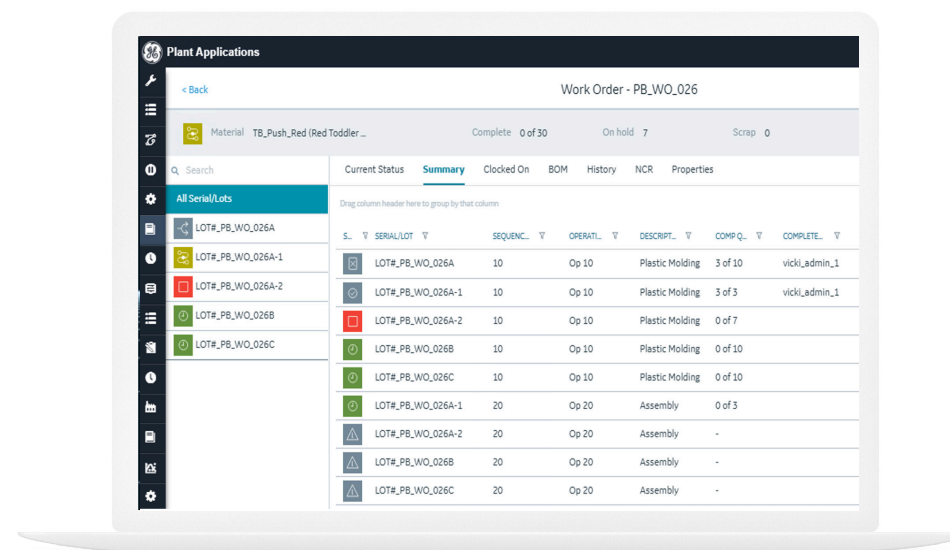With Proficy MES, you can reduce inventory costs, control the flow of product between equipment, manage and report on in-process inventories, and integrate quality and production tracking to improve the accuracy of schedule execution.

Generate more revenue by meeting customer demands and government regulations through product genealogy reports
Track products and materials through their entire production lifecycle, quickly develop Certificate of Analysis (COA) reports, limit the scope of recalls and quarantines, and provide faster response to customer issues.

Enable Lean and continuous improvement
Improve performance with capabilities designed to solve the toughest manufacturing challenges and drive continuous improvement – while leveraging GE's renowned expertise in Lean, as one of the largest manufacturers in the world, and our work with other top manufacturers.

Optimized Production Operations

- Track order completion status

- Production tolerances on non-serialized material and default record quantity

- Manage material delivery to the process

- Track true/actual resource consumption and feed back to ERP

- Drive label printing and identification

- Orders dispatch from schedule

- Oversees production operations, including functions to control product flow between equipment

- Monitors consumption of resources

- Supports full traceability of individual products through every step of the manufacturing process allowing for auditable genealogy and production reporting

- Turns production data into performance metrics – monitors automatically & manages consistently

- Send COAs to customers automatically

- Support regulatory and internal compliance (energy, environmental, food safety, costs, etc.) – including eSignature capabilities and 21 CFR Part 11 support

High Value, Volume & Variability Serialized Production: Routing, Sequencing and Tracking

Proficy MES also provides comprehensive tracking and order execution management that meets the critical needs for serialized production that involves high volume, high value, high variability products such as automotive, appliances, electronics, agriculture and heavy equipment, recreational riding products, and more. In these environments, it tracks each serialized item that moves through your production process—providing detailed, continuous information to help you make the best decisions for a competitive edge.
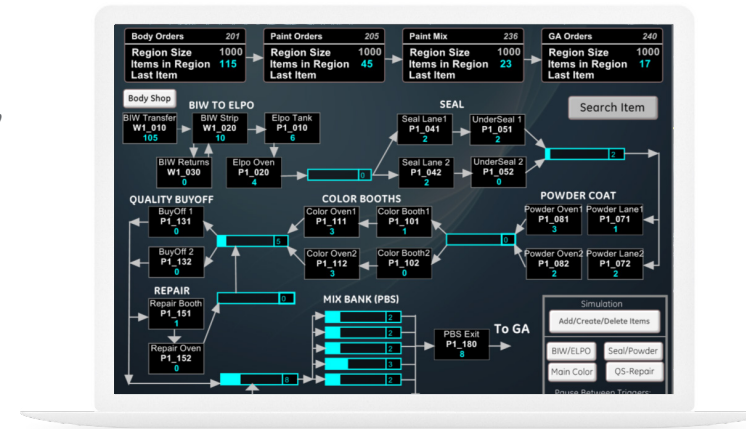
Proficy MES allows you to:

Increase throughput and launch new products faster

With Proficy MES, each serialized item that moves through your production or packaging process can be tracked. You get the detailed, continuous information you need to optimize your manufacturing process while managing inventory levels and locations, scheduling resources and routing materials much more effectively.

Implement Lean production

With Production Routing and Order Execution Management, Proficy MES helps manufacturers and suppliers understand real-time sequence requirements and handle situations that occur on the plant floor when the sequence is broken—enabling manufacturers to build right the first time. It helps facilitate a large reduction in WIP inventories along with finished goods inventories while meeting production targets.

Improve inventory, production orders

Better manage inventory, production orders, and routing materials with detailed data using Proficy MES. It empowers your operators with real-time information and control of their operations to accommodate a variety of production flow adjustments.

Real-time flow management of jobs

Proficy MES provides the ability to not only track the real-time location of jobs on the production floor but can be configured to perform routing logic on the movement of jobs throughout the facility. This unique capability allows manufacturers to manage the manufacturing, routing, and delivery of multiple product components into complex product assemblies.

High Value, Volume & Variability Production

- Production routing and tracking, including WIP inventory control

- Product genealogy and traceability for audit trails and regulatory compliance

- Error proofing

- Order management and broadcast management

- Sequence & substitution management

- Defect containment

- Hold management

- Facilitates build to order / build to sequence production

Batch Analysis

Proficy MES provides an evaluation of scheduled and completed product recipes while generating batch records to help increase the overall quality and consistency of products.

With our unique layered applications approach and interface to standards-based commercially available batch execution systems, Proficy MES is a great fit to extend both new and existing batch execution systems. It supports ISA-88 recipe analysis for products as formulation (BOM), procedures, and equipment.

Our solution also provides analysis of scheduled and completed recipes and generates electronic batch records (EBR) to help increase the overall quality and consistency of products.

Proficy MES allows you to:

Increase quality and consistency of batch operations and reduce variability in batch processes
Compare cycle times, parameters and variables across batches. Report and summarize batch data in support of improvement initiatives. Trend related parameters across batches to understand and control process variation.

Lower costs by leveraging existing systems and infrastructure to drive improvements
Leverage both new and existing batch systems through standard interfaces. Combine quality, production tracking and other core manufacturing functions with batch operations providing a complete picture of plant operations.
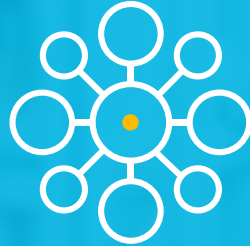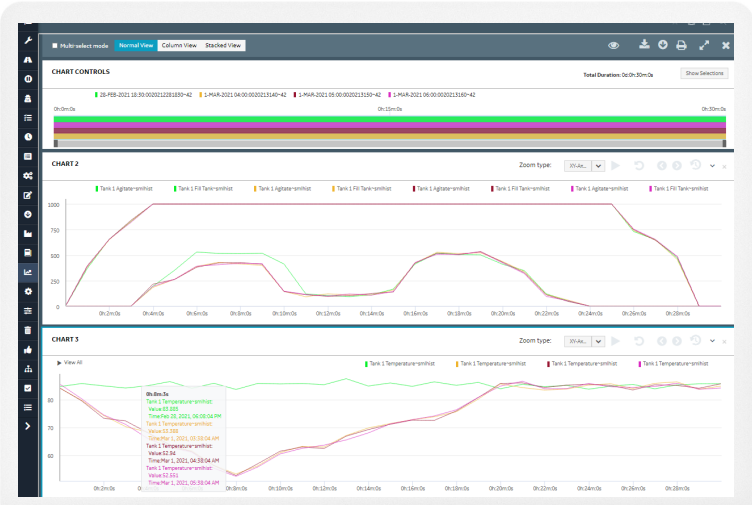
Control Variation in Batch-Related Production

- Supports ISA-88 recipe analysis for products as formulation, procedures and equipment

- Fits both new and existing systems thanks to its unique layered applications approach and interface to standard-based commercially available batch execution systems

- Provides analysis of scheduled and completed recipes

- Generates batch records to help increase the overall quality and consistency of products

Scheduling

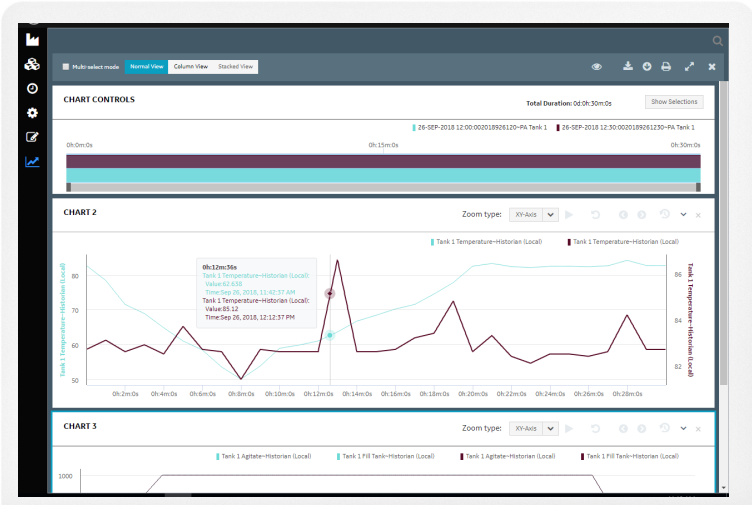**With Proficy MES, you can achieve dynamic and effective production schedules in real time.**

The Proficy MES scheduling capabilities enable companies to create and maintain dynamic and efficient production orders in real time based on resources and asset capacity. By providing an interactive graphical view of the production plan across the plant, Proficy MES helps planners to easily schedule and execute production orders then monitor the progress to ensure more efficient production operations.

Proficy MES tracks actual measured production, consumption, waste, and yields and updates ERP and other systems automatically. It also provides reports and analysis tools.

Proficy MES allows you to:

Reduce labor costs
Determine resources needed, scheduling down to minutes in a leaner operation

Optimize capacity
Valid schedules checked against finite capacity and material availability

Increase customer satisfaction
Improve capable-to-promise by giving reliable delivery dates
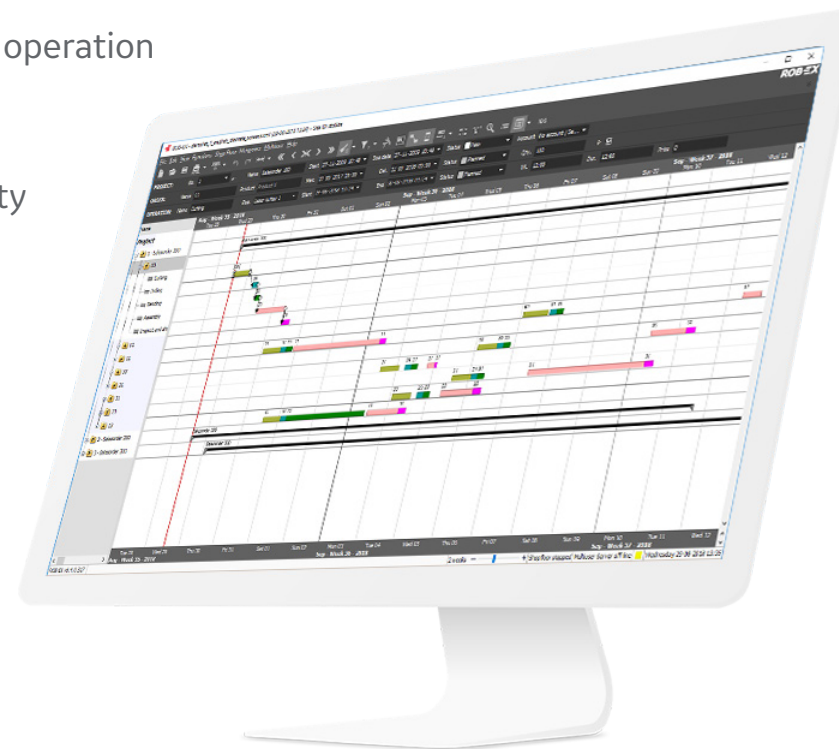
Better accommodate variation
Reschedule based on capacity changes, leveraging automated rules

Speed decision making
What-if simulation of scenarios improves and accelerates decisions

Increase collaboration
Combine local scheduling and central multi-site planning, allowing users to work simultaneously from the same plan

Optimize Production with Better Planning

- Interactive graphical view of the production plan

- Configuration of product routings and resources (staff, materials, equipment) for short-, mid-, and long-term planning

- Actual production, consumption, and events information

- Automated tool for "what if" scenarios and impact on future orders

- Integrated real-time tracking including mapping current situations with production schedules to optimize and meet customers' expectations

- Rescheduling based on capacity changes – including ability to make on-the-spot adjustments

- Integration with other systems including ERP

- Local scheduling and central multi-site planning as well as enablers multiple users to work simultaneously from the same plan.

- Access as Planners or Viewers

- Support for mobile devices, allowing remote operator access to on-line job lists

Digital Operations:
Centralized, Remote and Mobile

After capturing data, how are you getting valuable information from it in a desired way? Proficy MES delivers a set of comprehensive information for easy access and analysis—anywhere any time, on any device. Additionally, this solution provides a development environment to rapidly build industrial applications (visualization, connectivity, data aggregation).

Combining MES data as well as data from other systems including historians, Proficy MES improves plant operations with greater visualization, data in context, and a foundation for analytics.

With Proficy MES, users can leverage:

- Out-of-the-box MES screens

- Custom MES screens easily configured through Rapid Application Development

- A mix of out-of-the-box and custom screens

Proficy MES aggregates and visualizes MES data with other data sources.

Configuring screens in Proficy MES is as easy as 1, 2, 3. First, shrink Activities. Next, drag and drop Widgets. Lastly, select and configure your data source. Done!
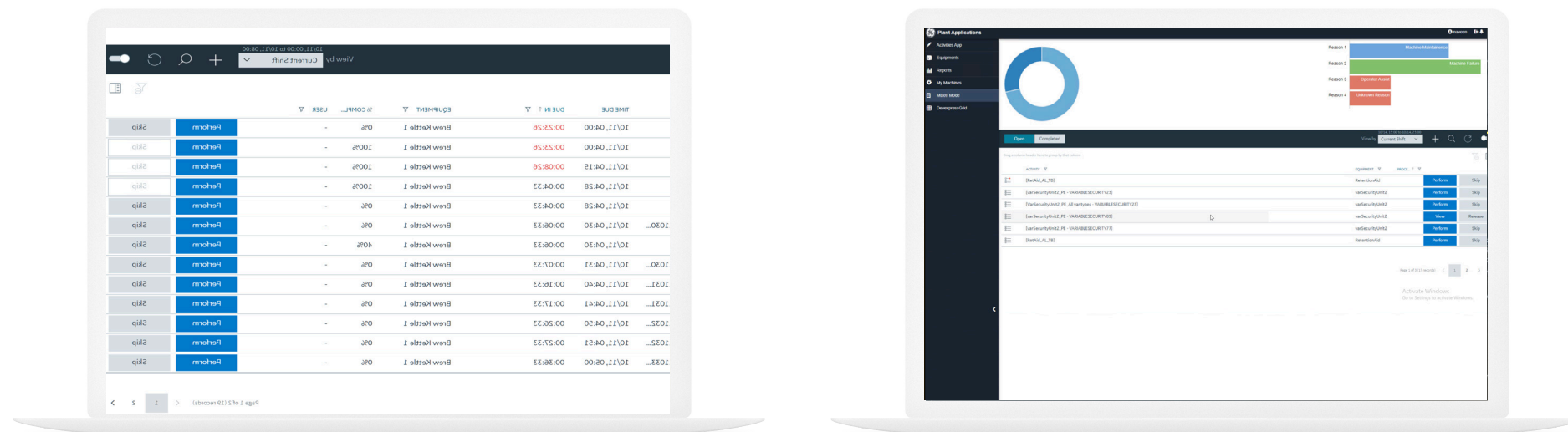
For the Plant / Manufacturing Manager, Operations / Line Manager

- Real-time visibility on KPIs: OEE (efficiency, quality, availability)

- Management dashboards – including non-OT data

- Mobile access for informed decision

For the Operations Personnel / Operator, Quality Engineer

- Real-time visibility on KPIs: OEE (efficiency, quality, availability)

- Dedicated dashboards that can be customized in-house

- A single pane of glass & single source of truth

For the Mobile User

- Information on the go – any time, anywhere

Hybrid Cloud Industrial Data Management for Analysis and Reporting

With Proficy MES, you can leverage our hybrid cloud industrial data management model including best-in-class historian technology to capitalize on IoT.

Proficy MES provides a best-in-class historian that collects industrial time-series and A&E data at very high speed, stores it efficiently and securely, distributes it, and allows for fast retrieval and analysis —driving greater business value.

With decades of experience and thousands of successful customer installations around the world, the Proficy MES historian technology changes the way companies perform and compete by making data available for asset and process performance reporting and analysis.

Proficy MES allows you to:

Analyze data in context
With Proficy MES, you achieve powerful data management with asset model context and visualization. Proficy MES provides: data aggregation across multiple sources or historians, ability to define an asset model including tag mapping, and advanced trend analysis.

Improve data security
Data security remains our highest priority. Proficy MES uses the User Account and Authentication (UAA) service as a trusted source of tokens issued for authentication. The UAA is a multi-tenant identity management service, used in Cloud Foundry, but also available as a standalone OAuth2 server. Primarily, it can act as an OAuth2 provider. It can also authenticate users with Cloud Foundry credentials, and can act as an SSO service using those credentials, or others.

Achieve enterprise-wide industrial data management
For enterprise-wide deployments, Proficy MES features a model for cross-enterprise data access, cloud-like elastic computing on prem, and scalability to 100 million tags.

Reduce data management time and costs
Decrease the costs to both store and access data with highly efficient compression algorithms, nearly zero database admin time, and tools to optimize performance. With just 1% compression enabled, Proficy MES is approximately 2x more efficient than a leading competitor and 30x more efficient than relational databases.

Real-Time and Historical Data: At Your Fingertips

- Collect industrial data at very high speed

- Normalize data and store it securely

- Distribute data and allow for fast retrieval and analysis

- Plant- and enterprise-wide capabilities: scales to 100 million tags

- 24/7 availability: avoid downtime and information gaps

- Stability and reliability for continuous improvement data analysis as well as mission-critical applications

- Easily deployable mirrored architecture

- Alarms & Events database, allowing retrieval of A&E in correlation to time-series data

- Multi-threaded for high performance

Reduce Costs and Improve Performance by Sending the Right Data to a Manufacturing Cloud

With Proficy MES and our hybrid cloud industrial data management model, you can easily and quickly increase the derived value by reliably bringing enterprise-wide manufacturing data into the cloud and transforming it into a structured data set for cross-plant storage, analysis, and analytics. At a cloud level, Proficy MES enables the consolidation of three data sets required for process optimization and analytical applications: asset data, ERP data, and manufacturing data.

Proficy MES allows you to:

Transform and consolidate data

Provides a reliable way to ingest manufacturing data and transform it into a usable format with S95-based contextual and aggregated data model. The transformed data models are accessible through easy-to-use and quick-response APIs.

Reduce storage costs

Separate the storage of historic and static data (cold data) from required data (hot data) to reduce on-site storage and maintenance costs through cloud server technology. Speed on-premises queries to improve operations agility.

Boost operations with analysis

Integrates data with multiple systems, creating an enterprise data set for reporting and analysis. Move raw and contextual data to data lakes to pool data into a single location, making it easy and fast to create a context for manufacturing analytics and improve operations.
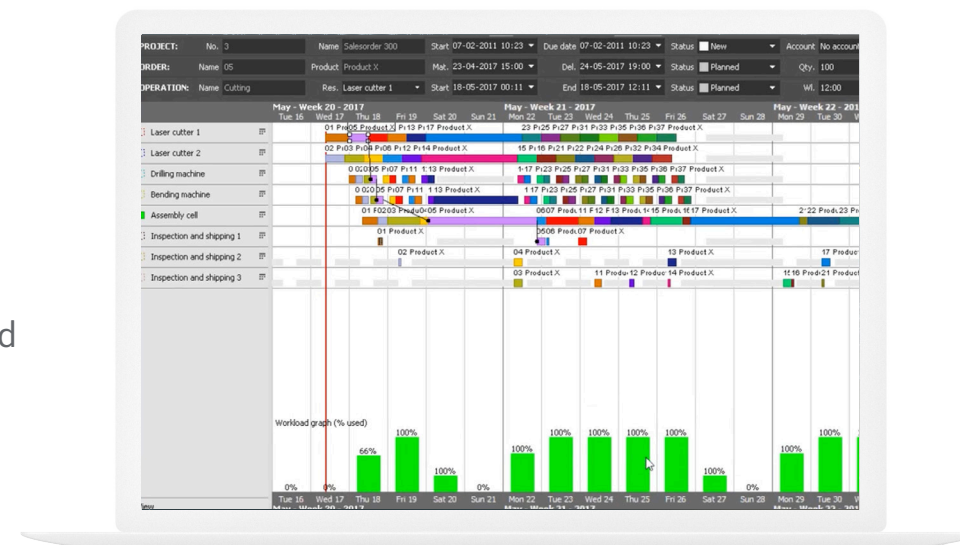
Hybrid Cloud MES

- Automated ingestion of enterprise-wide data

- Secure-by-design

- Edge technology

Industrial Advanced Analytics:
On Prem and Cloud Based

With Proficy MES, you can improve asset and process performance with AI and machine learning.

Proficy MES uses AI and machine learning to enable process engineers to combine data across industrial data sources and rapidly identify problems, discover root causes, predict future performance, and automate actions to continuously improve quality, utilization, productivity, and delivery of operations.

Proficy MES has helped organizations around the world reduce costs by turning raw data into rapid business value. Engineers and data scientists can analyze, monitor, predict, simulate, and optimize and control set-points in real time.

Additionally, Proficy MES provides the capabilities to mine insight from historical data and rapidly develop, test, and deploy simple calculations, predictive analytics, and optimization and control solutions to reduce variability and improve operations.

Proficy MES allows you to:

Mine new insight from data
With Proficy MES, engineers can rapidly troubleshoot continuous, discrete, or batch manufacturing process performance by mining insight from available sensor and production data. Seamless connectivity, rich visualization, and predictive analytics enable users to analyze operating scenarios, quantifying the impact that operational changes will have on key performance metrics and identifying causes for performance variation.

Improve production throughput, yield, quality, and efficiency
Proficy MES enables engineers to rapidly develop analytic solutions that typically improve production throughput, yield, quality, and efficiency with significant margin. A comprehensive solution-development environment provides visual analytic building blocks. This allows users to build and test calculations, predictive analytics, and real-time optimization and control.

Enhance engineering productivity
Proficy MES also allows engineers to more easily capture expert knowledge and best practices—combined with insight mined from data —into high-value analytic templates for rapid enterprise-wide deployment. Visual drag-and-drop analytics accelerate time to value and reduce dependence on data scientists and programmers.

Leverage modern analytics visualization for faster response
Take advantage of modern, thin-client visualization for high-performance analytics at your fingertips, where and when you need it.

Analytics That Drive Plant and Enterprise Optimization

- Support for on-prem and cloud-based analytics
- Ability for engineers to optimize; no data scientist required

- Enables building rich analytic solution templates with no required programming

- Simple calculations, data cleaning, math, statistics, machine-learning models, real-time optimization, and advanced process control

- Plug-and-play connectivity to historical and real-time data sources

- Rapid wizard-driven data mining for engineers for fast time-to-insight

- Built-in support for data quality to make real-time data cleaning and validation easy

- Ability to develop, integrate, test, and deploy real time solutions

- Easy-to-use, drag-and-drop environment for subject matter experts

Dynamic, Interactive Work Process Management: Go Paperless

With Proficy MES, you can decrease operator errors, costs and risk with digitized, interactive work instructions and eSOPs.

Proficy MES provides operators with interactive, step-by-step instructions, guiding the right actions at the right time. Operators can easily move from a paper-based method of managing procedures to an electronic format for consistency and predictability.

Proficy MES allows you to:

Unify processes

Digitize manual and automated processes with one solution across a plant or entire enterprise-from plant operators and maintenance teams to field crews and leadership.

Speed corrective action

Filter MES alarms, take automatic actions, and push required actions to the right person.
With clear guidance, teams respond faster to events, and operations run more efficiently.

Decrease operator errors

Guide operators through the right steps to take, at the right time, with effective electronic work instructions.

Reduce costs and risk

Enforce and track processes to achieve higher quality, decrease waste/scrap, comply with regulations, and improve safety.

Capture and preserve knowledge

Document processes before experts retire and standardize best practices for consistency across operations.

Integrated, Interactive Work Instructions

- Guide operators with clear, step-by-step, interactive work instructions

- Document when, by whom, and how long work is performed

- E-signature and audit trails at your fingertips

- Trigger action based on time or events

- Embed videos, live feeds, pictures, manuals, and MSDS

- Automatic escalation and notification

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