Quick Start for OEE from GE Digital

Leverage expert Professional Services to enable OEE monitoring for daily management and continuous improvement

Achieve faster time to value with OEE visualization through expert implementation services, trusted deployment, and reliable training

At GE Digital, our Professional Services team has implemented OEE solutions for more than 20 years, serving customers around the world across a diverse set of industries. If you're still using paper and manual processes to monitor performance, our Quick Start for OEE will launch your modernization journey, delivering fast results.

The Quick Start for OEE allows key people such as production managers, shift leaders, and line operators to measure manufacturing productivity according to three standard perspectives: Quality (good production), Performance (fast production), and Availability (no downtime).

With the Quick Start for OEE, manufacturing teams can increase the effectiveness of their continuous improvement approach through:

- Application of OEE, a widely acknowledged best practice KPI
- Measurement accuracy via automatic data collection from your automation systems
- Scaling – first focus on a pilot line to quickly assess benefit realization, followed by defining a path to full enterprise visibility

Let GE Digital's Professional Services help you track losses with real-time integration, perform root-cause analysis, and solve your most impactful issues by identifying and implementing countermeasures.

Outcomes
- Quickly achieve automatic data collection of line / machine statuses and production countermeasures
- Drive expert implementation of shop floor Overall Equipment Efficiency (OEE) KPI monitoring for operations insight and improvement
- Leverage GE Digital's experienced Professional Services to enable loss detection and traceability (availability, performance, quality)
- Improve insight with contextualization by line / machine
- Boost time to value with proven OEE consulting and implementation

01 Transition to paperless OEE KPI calculation and visualization

The Quick Start for OEE allows manufacturing teams that are already measuring performance via OEE and manual data gathering to accelerate the transition to a paperless KPI calculation. The Quick Start combines adoption of GE Digital's proven Proficy products in conjunction with expert implementation.

GE Digital leverages OPC standard integration with the shop floor and automatic collection of machine / line status and production counters, minimizing labor-intensive and error-prone manual data collection related to OEE calculation. Information about downtime reasons that cannot be automatically collected can be set manually by the user. GE Digital's solution automatically calculates OEE algorithms as a foundation for digital transformation.

02 Leverage your existing SCADA data to improve efficiency

Already have iFIX or CIMPLICITY HMI/SCADA from GE Digital? We're experts at extending your SCADA to enable OEE and standardizing the digitization of production processes at an MES level.

03 Deliver efficiency KPIs on top of existing legacy or home-grown MES systems

Have an existing MES solution but aren't measuring productivity via the OEE standard? GE Digital's Professional Services team can help you leverage your installed base of MES technology and layer our out-of-the-box OEE solution.

With the Quick Start for OEE, you can take advantage of an economical approach to achieving efficiency KPIs without needing to pursue a custom approach and instead choosing proven technology with a quick return on investment.

With GE Digital's Professional Services team and the Quick Start for OEE, you can achieve the efficiency KPI monitoring that you need for daily management and continuous improvement – fast!

Success with GE Digital's Professional Services

Your trusted partner for full deployment of your GE Digital products, resulting in better outcomes, reduced risks, and higher customer satisfaction – proven and supported around the world..

🕐 **1,300,000+** Deployment hours

📊 **Thousands** of Deployments

👥 **1,000+** Years of MES experience

🔖 **94%** On-time MES delivery

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Features and Framework

The Quick Start for OEE provides a bundled offering of product license and implementation expertise to:

- Identify pilot areas in your production facility where real-time data acquisition and OEE KPI monitoring can quickly provide value
- Enable key team members on the plant floor to track losses
- Support data-driven decisions to identify the right countermeasures during operational reviews

Features

GE Digital Professional Services software and industrial expertise with a focus on providing a calculation engine that feeds:

- OEE dashboard including availability, quality and performance, mean time between failures (MTBF), and mean time to resolve (MTTR)
- OEE downtime display
- OEE by Product, Order, Shift, and Crew

Consultation

A Lean implementation approach to give added value in a short time.

- Six-week implementation
- On-site readiness workshop
- KPI measurement
- Root cause analysis and countermeasures
- Weekly touchpoints and consultations for an additional four weeks post deliverable acceptance

Services Deliverables

Site Survey

- Site survey questionnaire
- Site readiness assessment (3 days)
- 1 pilot line (max. 5 machines)
- Standard reason trees (5 categories, 3 reasons per category)
- Tag mapping – 1 tag for Machine Status, 1 Fault Tag, 2 tags for Production Counters (Good Production, Bad Production), 1 tag for Production Rate
- Functional Design Specification (FDS) final report based on pre-defined template

Model Configuration and Installation

- GE Digital software installation
- Detailed design specification (plant model, tag mapping, reason tree, speed rate)
- OEE model configuration

Shop Floor OEE KPI Monitoring

- Data collection (1 week)
- Root cause analysis preparation

Root Cause Analysis and Countermeasures Identification

- Root cause analysis session
- Identification of countermeasures for top 5 root causes

Countermeasures Follow Up and Benefit Realization Assessment

- Weekly follow-up session to ensure the system is running and answer user questions for the duration of the Quick Start
- Follow up of countermeasures
- Assessment of the benefit realized from implementation of countermeasures

Software Requirements

- Operating systems:
  - Microsoft Windows 10 for client installations (64 bit)
  - Microsoft Windows Server 2019, 2016 or 2012 R2 for server installations (64 bit)
- Microsoft SQL Server 2019 (with mandate Cumulative Update 4 installed), 2017, and 2016 (64 bit)

Hardware Requirements

Minimum:

- 4 CPUs with 3.0 GHz processor each
- 16 GB RAM (Optimization of memory allocation needs to be to SQL Server)
- 1 TB hard drive (minimum 7.2KRPM)

For a standard implementation, GE recommends the following:

- 10 Cores with 2.6 GHz processor each
- 32 GB RAM (Optimization of memory allocation needs to be to SQL Server)
- 4 TB hard drive (minimum 7.2KRPM)

Hardware and software requirements listed above are a partial representation. Requirements may vary by user deployment. Please consult the product documentation for more details.

Learn more about the advantages of working with GE Digital's Professional Services team and how you can accelerate time to value with a Quick Start solution.

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