
Plant Maintenance and Performance Assessment

Improve equipment, production and process performance.



In a recent Food Engineering research report, nearly 30 percent of maintenance personnel said their company employs a “break-fix” maintenance strategy.

As unnecessary maintenance can cost about the same as total plant profit loss for one day of downtime, this strategy may seem to make economic sense. But new technologies are creating opportunities to improve equipment performance, maintenance procedures and equipment life expectancy.

We understand your need to optimize your food and beverage plant's performance. To support your business goals, we offer a Plant Maintenance and Performance Assessment to help you to get the most out of your operations and assets.

If you want to identify improvement opportunities that span your entire asset life cycle, talk to us.

Why do you need this service?

The food and beverage industry today faces a host of challenges, from food safety concerns and stringent regulations to shifting workforce demographics and a demand for sustainable operations. It's no wonder that manufacturers in this industry may find it difficult to identify the right solutions to optimize their operations and maintenance.

ABB's Plant Maintenance and Performance Assessment uses a collaborative approach to understand your plant's challenges and identify opportunities for continuous improvement. It takes a holistic approach toward improved plant performance, with a focus on reliability-centered maintenance strategies for equipment life extension that span the entire asset life cycle.

Our food and beverage service experts can identify opportunities to achieve many of your operations and maintenance goals:

- Improve safety performance
- Increase production and uptime
- Greater compliance with industry regulations
- Reduce the life cycle cost of ownership
- Improve equipment performance
- Improve quality
- Evaluate employee skills against plant needs
- Ensure the ability to attract new talent
- Predict maintenance costs
- Manage spare parts inventory
- Identify and mitigate risk

The assessment can also serve as a catalyst for innovation using digital solutions.

What happens during an assessment?

We understand that every food and beverage plant is different. We work with you to ensure we have a good understanding of your plant's operations and your current maintenance practices before we begin your assessment.

Our team will first collect data from your site personnel to gather preliminary information. During the onsite visit, our process experts will collect equipment data, process control data and production information. Our team usually can complete the onsite visit within a week.

To identify the most meaningful solutions for your specific operating conditions, our assessors will examine the following aspects of your plant:

- Electrical and automation equipment performance
- Maintenance procedures and equipment life expectancy
- Inventory of critical spares
- Safety procedures and equipment
- Process performance
- Production throughput
- Energy and material usage
- Employee competencies and training programs

After the on-site visit, our experts will analyze the collected information and prepare a detailed report. It will identify the status quo of your equipment performance and provide improvement recommendations with estimated return on investment (ROI).

What happens next?

Your report will offer clear data, recommendations and tailored plans aligned with your targets. Our analysis includes:

- Assessment of automation process performance
- Assessment of electrical system risk
- Equipment life cycle assessment
- Maintenance optimization plan
- Recommendations for improvement

We will work with you to establish an impactful business case focusing on the highest priorities and strongest returns. By acting on the findings of the assessment, our customers have been able to achieve quantifiable results, such as:

- Raised production availability by more than 5%
- Extended equipment life for 10% of the cost of new equipment
- Optimized process performance by up to 20%
- Improved productivity by 5%
- Increased overall equipment effectiveness (OEE) 2-5%

If you're ready to employ a reliability-centered method for equipment life extension that spans the entire asset life cycle, talk to us about your own Plant Maintenance and Performance Assessment.