

ABB Reliability Fingerprint

Identify opportunities for productivity, reliability and cost improvement

The ABB Reliability Fingerprint benchmarks your site against productivity and reliability industry best practices. The Fingerprint identifies and documents site opportunities for improvements in Overall Equipment Effectiveness (OEE), maintenance performance and reliability culture. The resulting business case provides improvement recommendations with estimated return on investment.

Benefits

- Typical Return on Investment (ROI) opportunity 10 to 1
- Ranks site against industry best practices
- Provides recommendations for sustainable improvement
- Identifies opportunities for improved financial performance

Features

- Identifies best practice areas
- Provides site productivity, reliability and cost benchmarking
- Includes ROI-based improvement plan

The ABB Reliability Fingerprint delivers a two-week objective assessment of your site, with one week of on-site data gathering and one week of off-site analysis and reporting. Collected data is used to benchmark your site against leading process industry and manufacturing sites, using ABB World-Class Reliability® best practice databases.

Areas of opportunity are identified and evaluated by ABB process and industry experts, who provide recommendations for sustainable productivity, reliability and cost improvements.

This Fingerprint evaluates three key areas: Overall Equipment Effectiveness; maintenance performance; and reliability culture.

Assessment Areas

Overall Equipment Effectiveness (OEE)

What is your OEE?

OEE is a composite measure of equipment availability, production rate and quality. The Fingerprint includes a



calculation of your OEE, based on collected data. Your score highlights target areas for improvement.

Maintenance Performance

How does maintenance affect your bottom line?

Your maintenance and reliability practices are evaluated through interviews with your staff. Information regarding personnel utilization, methodology and performance criteria is gathered to evaluate existing site maintenance and reliability effectiveness.

Reliability Culture

Do you measure reliability?

A participative interview approach, with focus on organizational structure, processes, procedures, and roles captures data from all levels of the plant. Perception and understanding of reliability among various functions, including supervisors and a number of technicians in operations, maintenance, engineering and other areas is evaluated. Analysis establishes requirements to develop reliability as a sustainable plant-wide responsibility.

This Fingerprint evaluates three primary areas that make up a site's reliability culture:

1. Roles and Responsibilities
2. Responsive Maintenance
3. Preventive and Predictive Maintenance

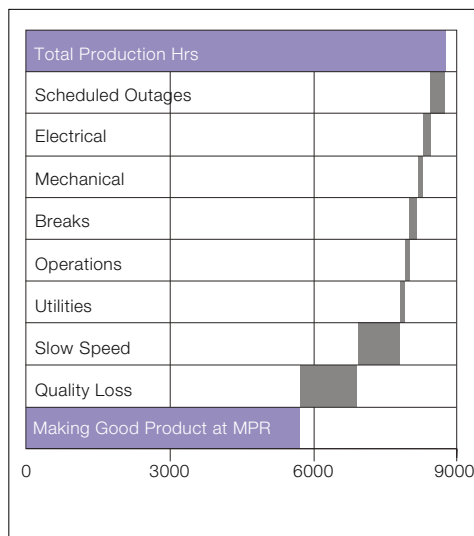


Figure 1. OEE: Areas for Improvement are identified as those that cause reduction of availability, production and quality. These areas will be targeted for improvement.

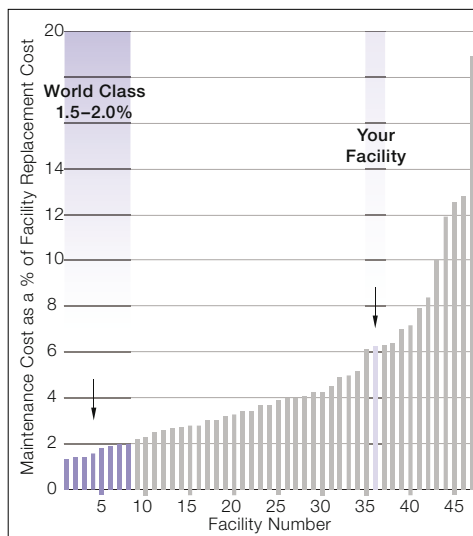


Figure 2. Maintenance Performance: Maintenance plays an important role in the reliability of your processes. The evaluation of site maintenance practices uncovers areas of opportunity in utilization, methodology and performance. Comparison to industry best practices provides a benchmark for your site and identifies steps for improvement.

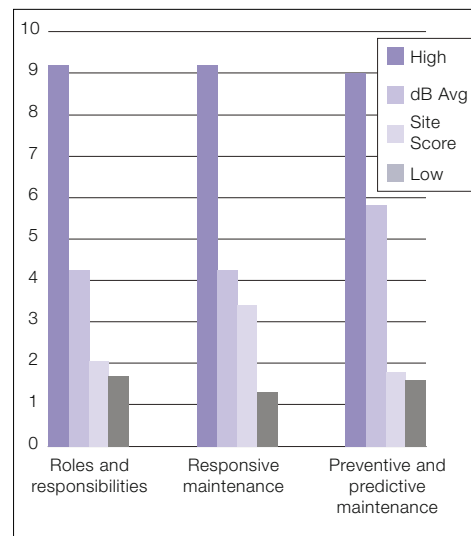


Figure 3. Reliability Culture: An understanding of the reliability culture at your site helps to pinpoint opportunities. Data is provided as compared with industry best practices.

Reporting

At the end of the evaluation period, findings are presented to selected members or groups of the plant to communicate areas of high achievement and areas for improvement.

An Executive report and a Technical Report are provided to disclose the findings and recommendations of the site performance.

- **Technical Report** includes a summary of data collected.
- **Executive Report** – includes benchmark results and a summary of site findings, including graphical summaries.

Improvement Plan

The strategic improvement plan is the final step of the assessment. This plan provides a recommendation for actionable steps to close productivity, reliability and cost performance gaps.

Availability

The ABB Reliability Fingerprint is available for process and manufacturing industries.

The ABB Reliability Fingerprint is the first step in achieving and sustaining higher performance levels. ABB offers the following services to complete the continuous improvement cycle.

Other ABB Services

Process Performance Implementation Service

ABB offers this service to implement the improvement plan outlined in the ABB Reliability Fingerprint report. An ABB Reliability Consultant will be assigned to lead the improvement activities.

Process Performance Sustaining Service

Once the process improvements are achieved, the Process Performance Sustaining Service is recommended to monitor the site for deviations from achieved improvement. This service offers a plan to monitor performance and provide your personnel with timely corrective recommendations.

Reliability Systems – PM30

ABB's PM30 Hosted Maintenance Management Service can be the essential foundation for a successful maintenance and reliability program. Implemented as quickly as 90 days, PM30 enables you to increase plant productivity through improved preventive maintenance compliance and make better informed decisions with more complete and consistent information.

For additional information regarding these or other available ABB services, please contact your local ABB Customer Service Center.

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