

RELIABILITY ASSESSMENT

OVERVIEW

A comprehensive evaluation of your plant's maintenance and reliability program, benchmarked against globally recognized industry standards. Through personnel interviews, process analysis, and data review, our senior consultants assess maturity across seven reliability pillars - then deliver a prioritized action plan and documented business case that accelerate your path to reliability excellence.

Value Proposition

Most plants know they need to improve reliability but lack an objective baseline to determine where to start and how to justify the investment. Without a structured assessment, improvement efforts are scattered, underfunded, or focused on the wrong priorities.

- ✓ Objectively identify strengths and gaps across all reliability pillars
- ✓ Benchmark current practices against top-performing facilities
- ✓ Receive a prioritized, achievable action plan with defined timeline
- ✓ Quantify the financial return of reliability improvement investments

The Reliability Assessment gives your leadership team a clear, data-driven starting point and the financial justification to move forward with confidence.

Reliability pillar	Actions	Q2	Q3	Q4	2025
Asset Master Data	Develop hierarchy, parts and BOM Ruleset Standards	█			
	Develop / review equipment hierarchy according to standards		█		
	Develop / Review BOM on all equipment			█	
	Optimize inventories based on new BOM data and equipment tyty.				█
Asset Strategies	Optimize strategies based on equipment criticality (FMEA, PMO, RCM)		█		
	Optimize and counterbalance the inspection frequencies and predictive technologies (P to F curve)			█	
	Deploy and implement new predictive maintenance technology				█
	Define a process for reviewing maintenance strategies (based on bad actors, equipment class, etc.)				█



Deliverables

1. Assessment report with spider diagram showing pillar maturity scores
2. Prioritized action plan presented as a Gantt chart
3. Documented business case with ROI projections

RELIABILITY ASSESSMENT

PROCESS

Phase 1 – Preparation (2 Weeks Prior)

- Kickoff teleconference with plant leadership
- Review of required documents and financial data
- Communication plan for site personnel
- Preliminary business case data collection

Phase 2 – On-Site Assessment (4 Days)

- Interviews with maintenance, operations, and leadership
- Questionnaire-based evaluation of seven reliability pillars
- Review of CMMS data, tools, and existing processes
- Plant walkthrough and observation of current practices
- Benchmarking against industry best practices database

Phase 3 – Analysis & Action Plan (Off-Site)

- Compilation of findings and gap analysis by pillar
- Development of detailed action plan with timeline
- Preparation of current-state presentation and recommendations

Phase 4 – Results Delivery & Workshops (4 Days On-Site)

- Work management optimization simulation workshop
- Presentation of assessment findings to key stakeholders
- Team workshop to validate and prioritize action plan
- Business case workshop reviewing costs, benefits, and ROI
- Final report development and delivery

RELIABILITY ASSESSMENT

DELIVERABLES

Assessment Report & Benchmarking

- Maturity score for each of the seven reliability pillars
- Comparison of current practices against industry benchmarks
- Documented observations with specific recommendations by pillar

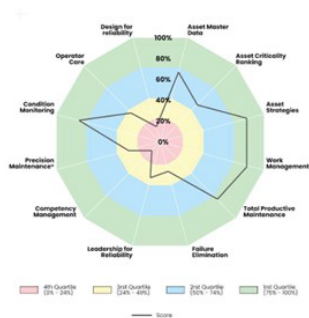
Prioritized Action Plan

- Gantt chart with short-, medium-, and long-term actions
- Defined roles, resources, and implementation timeline
- Plant-validated priorities aligned with operational objectives

Business Case for Reliability

- Financial analysis of costs, benefits, and projected returns
- Benchmarked against hundreds of facilities across industries
- Clear payback timeline and return on investment projections

Assessment Report with Spider Diagram



Business Case Analysis (ROI Calculator)

Benefits	Year 1	Year 2	Year 3	Year 4
% of annual profits	0%	10%	20%	50%
\$ of annual profits	\$0	\$1,314,895	\$2,629,789	\$6,574,473
% Unique benefit - Inventory	0%	100%	0%	0%
\$ unique benefit - Inventory	\$0	\$1,237,500	\$0	\$0
Supplementary benefits	\$0	\$0	\$0	\$0
Total annual profits	\$0	\$2,552,395	\$2,629,789	\$6,574,473
Total cumulative annual profits	\$0	\$2,552,395	\$5,182,184	\$11,756,657

Total profit 5 years	\$22,642,281
Total investment	\$2,263,323
Return on investment 5 years	10.0 for 1
Internal rate of return (IRR)	232%
Break-even point (year)	1.58

Prioritized Action Plan

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