

RCM Metrics and Benchmarks

Use metrics to prove RCM's value

Depending on your RCM study objectives, select performance metrics to trend over time and prove the value of your RCM efforts. For quick wins, select metrics that will be possible to monitor more frequently than measures that require a longer range to see improvement.

Production			Reliability			Employee			Cost		
Measure	Benchmark	Trend	Measure	Benchmark	Trend	Measure	Benchmark	Trend	Measure	Benchmark	Trend
Availability	>90% (variable by industry)	↑	% Candidate equipment covered by CBM	100%	↑	PM/PdM Inspection hours	30%	↔	CBM/PdM cost	Correlate to CbM hours (strive for hour benchmark)	↑
Quality	>90%	↑	Mean time between failure	Variable	↑	Corrective maintenance hours	55% (50% from work ID, 5% other)	↔	Corrective maintenance cost (after failure)	Correlate to corrective hours	↓
Rework	Variable	↓	Mean time to repair	Variable	↓	Craft worker to supervisor ratio	12:1	↔	Emergency purchases	Variable, typically <2% *LCE benchmark	↓
Scheduled downtime	Variable	↓	Overall equipment effectiveness (OEE)	>85% (batch) >90% (cont. discrete) >95% (continuous)	↑	Overtime maintenance hours	<5%	↓	Maintenance cost as % of RAV	<3%	↓
Scrap	Variable	↓	PM and PdM yield	1 corrective work order for every 5 inspections *LCE benchmark	↔	Proactive work	>80%	↔	Maintenance material cost	50%	↓
Unscheduled downtime	Variable	↓	PM & PdM effectiveness	13~20%	↑	Reactive Maintenance	<10%	↓	Overtime maintenance cost	<5%	↓
Uptime	>98% (continuous) >95% (batch)	↑	Reactive work	<10%	↓	Training hours	80/year	↔	Shutdown costs	Variable	↓

Benchmark values from SMRP Best Practices 6th Edition