

PREDICTIVE MAINTENANCE

COST TYPES and BENEFITS

PdM program costs may be at startup, or be ongoing. Consult the list in Table A to ensure the team will be ready to properly calculate costs/benefits or return on investment (ROI).

TABLE A: Cost Types							
	Category	Cost Areas	Included in		Cost	Actual	
	Category	Cost Aleas	Program?		Estimates	Costs	
	nent	Computerized Maintenance Management System (CMMS)	yes	no			
		Sensors (permanent, portable, remote)	yes	no			
	uip	Implementation, setup, calibration	yes	no			
	Щ	PdM Technologies	yes	no			
	_ •ಶ	Accessories	yes	no			
	Tools & Equipment	Labor costs for operation	yes	no			
		Data collection instrument(s)	yes	no			
			yes	no			
			yes	no			
			yes	no			
	PdM Program	Development of PdM Charter	yes	no			
		Program communications	yes	no			
		Ongoing status meetings	yes	no			
		Metrics reporting/review	yes	no			
		FMEA for identified assets	yes	no			
		EMP for identified assets	yes	no			
			yes	no			
			yes	no			
			yes	no			

	Education & Training (delivery and participation)	PdM Program	yes	no	
		awareness			
		Operation of new tools	yes	no	
		& equipment			
		Change Management	yes	no	
			yes	no	
			yes	no	
			yes	no	
		Baseline asset	yes	no	
		performance data			
	•ర	collection			
	<u>_</u>	Labor cost for data	yes	no	
	tic is	collection			
	Data Collection & Analysis	Labor cost for data	yes	no	
		analysis and reporting CMMS data	1/00	no	
		management and	yes	no	
		reporting			
		- operang	yes	no	
			yes	no	
			yes	no	
		Reduced production	yes	no	
	S	and/or quality	-		
	itic of	Potential for increased	yes	no	
	un S C	short-term maintenance			
	Lost Opportunities and Costs of Transition	Acquisition/preparation	yes	no	
		of updated procedures,			
		processes and other			
		materials			
	90S		yes	no	
	ĭ		yes	no	
			yes	no	

Notes:

Sometimes PdM program benefits can be slightly more complex to calculate. Consult the list in Table B to ensure the team is evaluating the program from many perspectives.

TABLE B: Benefits							
	Category	Cost Areas	Included in Program?		Savings Estimates	Actual Savings	
	Labor	Reduced overtime for urgent/emergency work Increased worker safety from fewer emergency	yes	no			
		activities Elevated worker skills	yes	no			
		Increased employee engagement due to improved practices	yes	no			
			yes	no			
			yes	no			
			yes	no			
		Reduced cost of catastrophic failures	yes	no			
	Φ	Increased energy savings (air leaks, steam traps, heat exchanger efficiency)	yes	no			
		Reduced contract maintenance	yes	no			
	l ou	Decreased parts costs	yes	no			
	Maintenance	Decreased parts inventory	yes	no			
		Increased asset reliability	yes	no			
	<u>~</u> •ಶ	Extended asset life	yes	no			
	ons	Increased operational efficiencies	yes	no			
	Operation	Reduced overall maintenance expenses for reactive or urgent work	yes	no			
		Proactive work planning resulting from informed, metrics-driven decision making	yes	no			
			yes	no			
			yes	no			
			yes	no			

TABLE B: Benefits (continued)						
	Category	Cost Areas	Included in Program?		Savings Estimates	Actual Savings
	Production	Increased production	yes	no		
		Reduced unscheduled downtime	yes	no		
			yes	no		
			yes	no		
			yes	no		
	Other	Vendor/supplier efficiencies	yes	no		
		Improved inter- departmental relationships	yes	no		
		Culture of continuous improvement	yes	no		
			yes	no		
			yes	no		
			yes	no		
Ν	lotes:					