

Key Performance Indicators - eMPS

The following are example key performance indicators to monitor a work management program.

Planning and Scheduling	Definition and Formula	Target
Actual Hours to Planning Estimate	The accuracy with which work is planned and the efficiency of planned work execution	+/- 10% (between 90-110%
		of the estimate)
[(Actual Work Order Hours)/(Pla		
Actual Cost to Planning Estimate	The actual cost incurred on a work order compared to the estimated cost of completion	+/- 15%
[(Actual Work Order Cost (\$))/(Planned Cost (\$))] x 100		(between 85-115% of the estimate)
Backlog - Ready	Backlog indicates the demand for labor. Ready-to-schedule backlog are those requests that have been fully planned and are ready to schedule. The result is the number of crew weeks.	Ready backlog - 2-4 weeks of crew hours Total backlog - 4-6
(Estimated Ready-to-Schedule Labor Hours)/(Weekly Average Crew Size (hrs))		weeks of crew hours
Labor Utilization	A measurement of the percentage of maintenance labor that is productive	100%
[(Hours Scheduled)/(Hours Available)] x 100		10070
Percent of Planned Work	Measures the effectiveness of the routine maintenance planning process. (Any completed work that was not planned is defined as Unplanned Work .) It is also a secondary indicator of craft utilization so can provide insight into improvement potential in wrench time.	> 90% Measured weekly
[(Planned Work Executed (hrs))/(Total Maintenance Hours (hrs))] x 100		
Schedule Completion	Measures adherence to the maintenance schedule, expressed as a percent of total time available to schedule	> 90%
[(Scheduled Work Performed (hrs))/(Total Time Available to Schedule (hrs))] x 100		Measured weekly
PM & PdM Work Order Compliance	Summarizes PM (preventive maintenance) and PdM (predictive maintenance) work order execution and completion compliance	> 90%
[(# PM + PdM Work Orders Com (# PM + PdM Work Orders Due)	npleted within 10% of Due Date)/] x 100	Measured weekly



Definition and Formula	Target
Measures the organization's ability to move work requests through the system. High work-order age may indicate a potential need for an additional planner, or it may indicate there are a high number of low-priority work orders that should be completed or removed from the work queue.	Due to variations in industry types, no single value can be identified, but it's important to track regularly for undesired trends.
May be lower with new planners, and when planning large work orders. A significant decrease may warrant analysis and investigation.	Number of work orders by planner should remain stable or trend slightly upward.
Sum of Created Job Plans	
Measures the accuracy of work planned.	< 10%
[(All Job Plans)/(Job Plans Requiring Additional Materials)] x 100	
Measures the amount of unplanned work that is being executed. (Compare to Percent of Planned Work)	< 10%
[(Unplanned Work Completed (hrs))/(Total Maintenance Labor Hours (hrs))] x 100	
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	Measures the organization's ability to move work requests through the system. High work-order age may indicate a potential need for an additional planner, or it may indicate there are a high number of low-priority work orders that should be completed or removed from the work queue. Is (days))/(Number of Work Orders) May be lower with new planners, and when planning large work orders. A significant decrease may warrant analysis and investigation. Measures the accuracy of work planned. Jiring Additional Materials)] x 100 Measures the amount of unplanned work that is being executed. (Compare to Percent of Planned Work) Ins))/(Total Maintenance Labor Hours (hrs))] The average amount of planned work a maintenance planner prepares per month. Planner skill and experience and the maturity of the site maintenance and reliability processes are factors, so use the metric as insight into the planning process and establish a baseline for monitoring