Data collection plan

Objective:

To measure and analyze key variables impacting emergency work orders in the maintenance process, in order to reduce downtime and emergency repairs by 30%.

Measure:

Metric	Description	Purpose
Downtime Hours (per machine)	**Total hours each machine is non-operational due to breakdowns**	**To quantify equipment availability and impact of failures**
Frequency of Breakdowns	**Number of breakdown incidents per machine over a set period**	**To track reliability and identify high-risk assets**
Type of Failure	**Classification of failure (e.g., mechanical, electrical, hydraulic)**	**To find patterns and root causes of different failure categories**
Time to Repair	**Time elapsed from issue report to resolution**	**To identify bottlenecks in the repair process**
Equipment ID	**Unique identifier for each machine/equipment**	**To trace issues back to specific equipment**

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