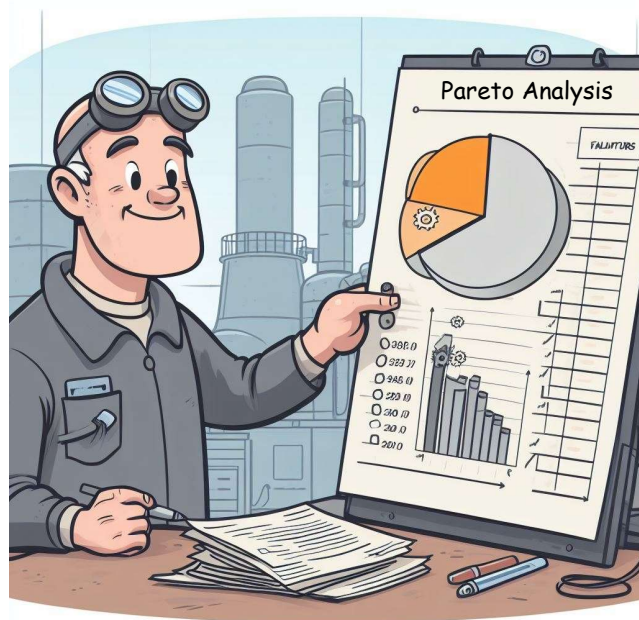


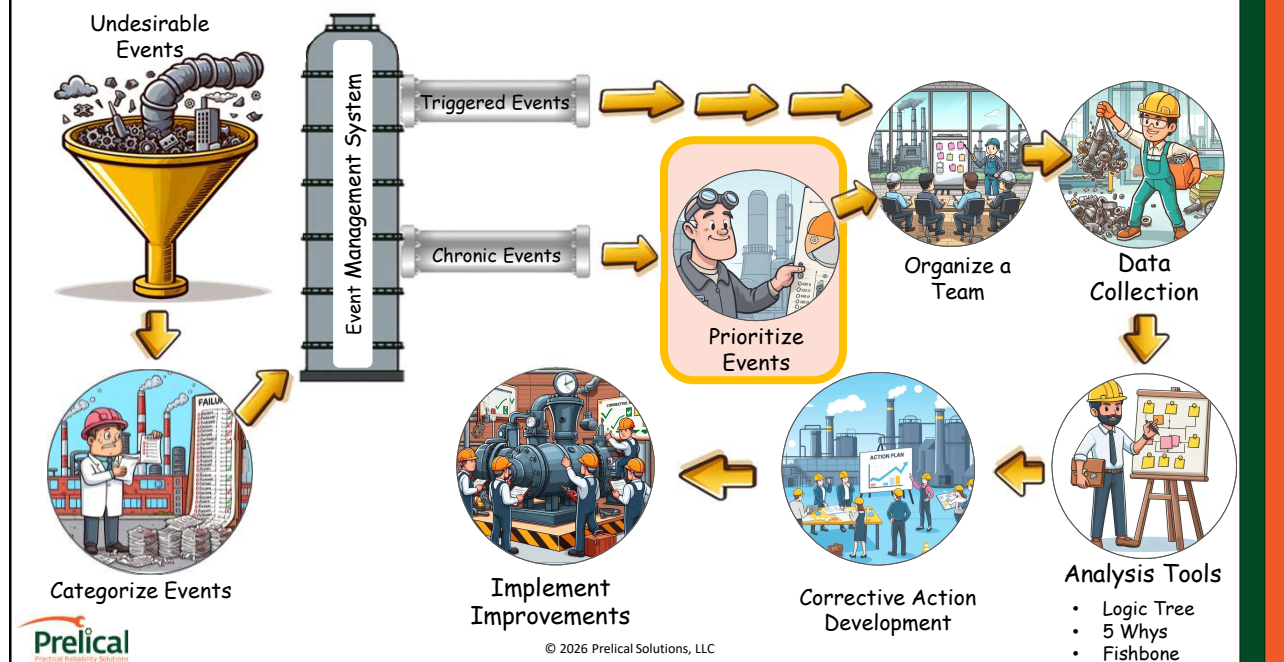
Prioritizing Events



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1

Prelical Event Management System (PEMS)



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2

Triggers

Triggers do not
require any
prioritization



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3

Chronic Failure Prioritization

With thousands of
pieces of equipment
and failures, how do
you generate a list of
“bad actors”?



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4

Utilize the Pareto Principle

The Pareto Rule, also known as the 80/20 rule, states that roughly 80% of the effects come from 20% of the causes, emphasizing the unequal distribution of impact or significance in many situations.

Industrial Plants

80% of losses from 20% of the equipment

Banks

80% of deposits come from 20% of depositors

Airlines

80% of revenue comes from 20% of the travelers



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5

Collect the Data Where's Your Most Reliable Source?



People?



Plant Data?



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6

Calculate the Annual Cost

Frequency/Yr X Cost/Event

$$12/\text{Yr.} \times \$20,000/\text{event} = \$240,000/\text{Yr.}$$



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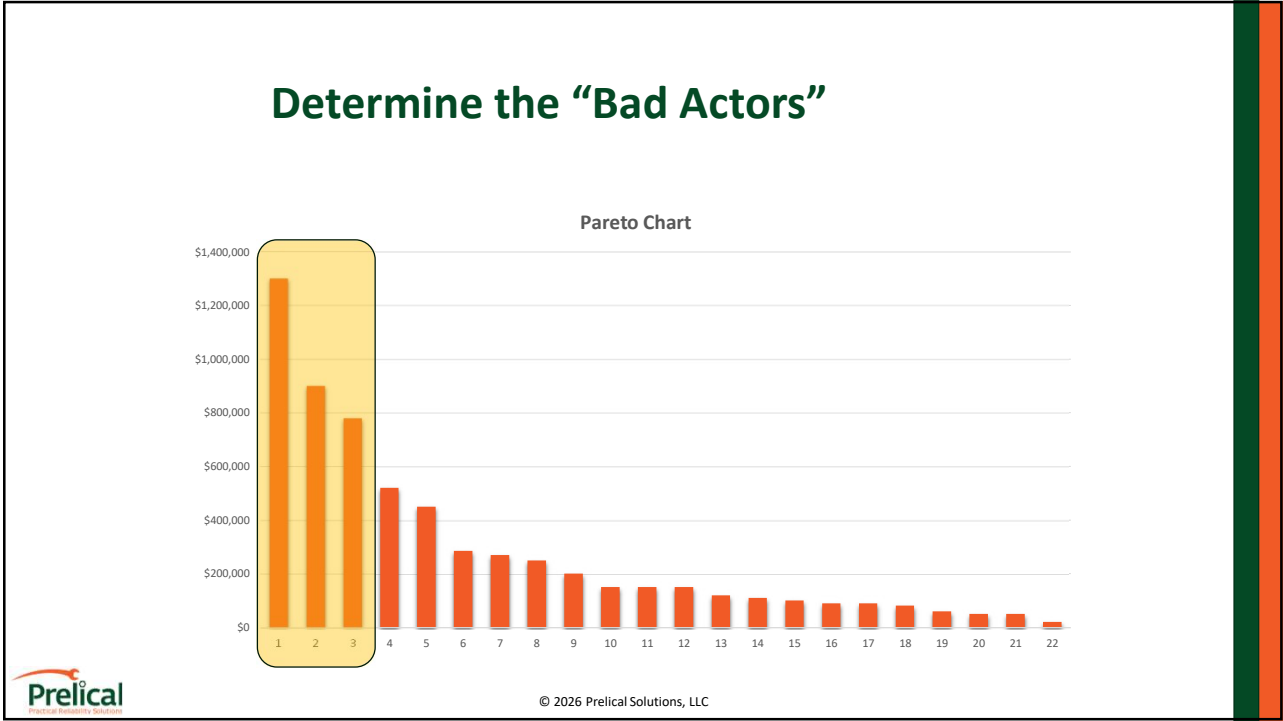
7

System	Event Description	Event Mode	Frequency Per Year	Impact Per Event (Maintenance + Production)	Total Impact
Pulp Mill	Digester Failures	Cap failures	52	\$25,000	\$1,300,000
Bleach Plant	TSP1 Failures	Locks Up	6	\$150,000	\$900,000
Paper Machine 1	Trim Squirt Pump Failures	Impellar Wear	12	\$65,000	\$780,000
Woodyard	Chipper Failures	Blade Failures	26	\$20,000	\$520,000
Paper Machine 1	Felt Roll Failures	Bearings	5	\$90,000	\$450,000
Paper Machine 1	Pulper Failures	Pulper Gearbox Failures	3	\$95,000	\$285,000
Woodyard	Truck Dump	Hydraulic Failures	6	\$45,000	\$270,000
Recausticizing	Kiln Failure	Insulation Failures	2	\$125,000	\$250,000
Paper Machine 2	Fan Pump Motor Failures	Winding Failures	2	\$100,000	\$200,000
Pulp Mill	Primary Screen Failures	Screen Fails	2	\$75,000	\$150,000
Waste Treatment	Primary Clarifier	Bull Gear Bearing Failures	2	\$75,000	\$150,000
Bleach Plant	MC Pump 4 Failures	Bearing Failures	2	\$75,000	\$150,000
Power	Power Boiler Failures	Trips	6	\$20,000	\$120,000
Pulp Mill	MC Pump 1 Failures	Bearing Failures	2	\$55,000	\$110,000
Pulp Mill	MC Pump 1 Failures	Seal Leaks	4	\$25,000	\$100,000
Recausticizing	Kiln Failure	Gearbox Failures	1	\$90,000	\$90,000
Paper Machine 2	Press Section	Press Roll Failures	1	\$90,000	\$90,000
Pulp Mill	A Washer Failures	Doctor Failures	3	\$27,000	\$81,000
Power	FD Fan Failures	Coupling Failures	2	\$30,000	\$60,000
Woodyard	Debarking Drum Failure	Gearbox Failures	2	\$25,000	\$50,000
Paper Machine 2	Kady Mill Failures	Bearing Failures	2	\$25,000	\$50,000
Power	Power Boiler Failures	Igniter Failures	4	\$5,000	\$20,000
Waste Treatment	Sump Pump Motor Failures	Will not start	3	\$5,000	\$15,000
Total					\$6,191,000



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8



9

Bad Actor Data Collection Worksheet

System	Event Description	Event Mode	Frequency Per Year	Impact Per Event (Maintenance + Production)	Total Impact
Total					\$0

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10

If Everything is Critical,
then NOTHING is Critical!

