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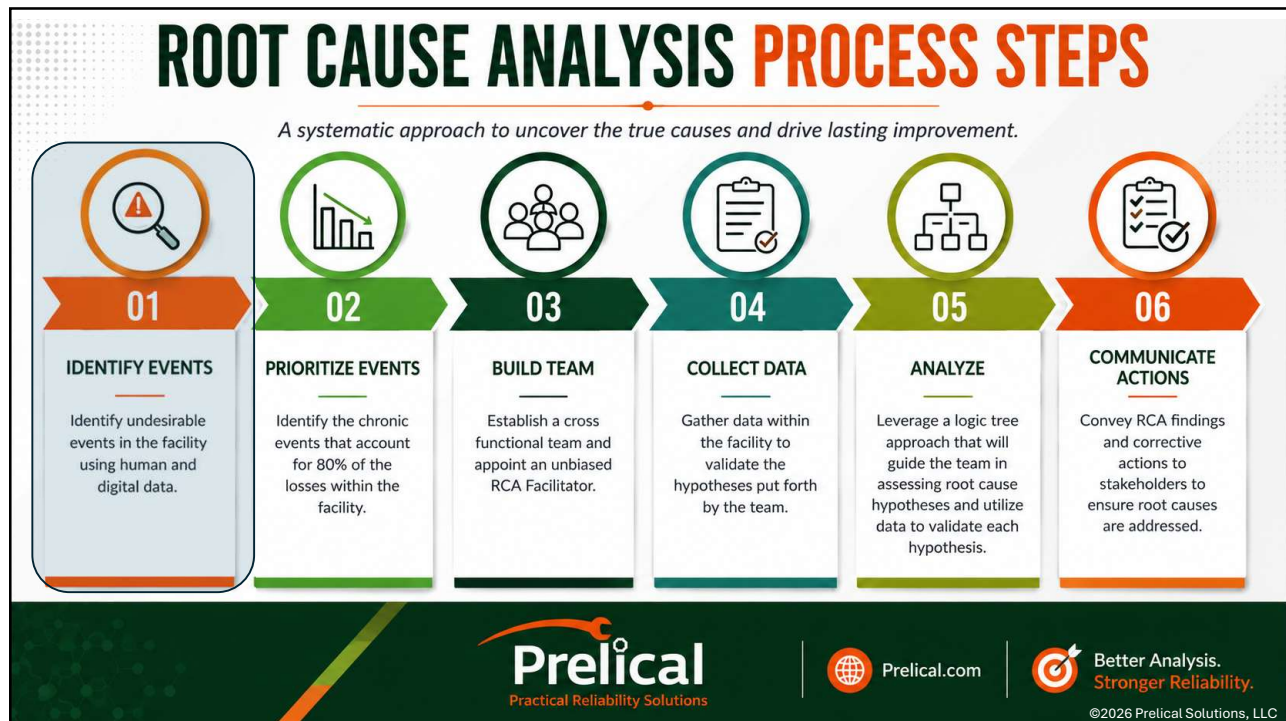
IDENTIFY EVENTS

Identify undesirable events in the facility using human and digital data.

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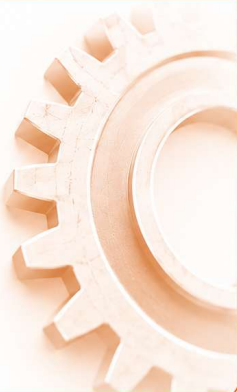


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TYPES OF EVENTS

SPORADIC	CHRONIC
 • Urgent • Infrequent • Time Consuming • Costly • Often Used as RCA Triggers 	 • Routine • Frequent Occurrence • Quick Fix • Not Individually Costly • Rarely Used as an RCA Trigger 

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What is a Trigger?



A defined set of criteria that determines when a **Root Cause Analysis** must be performed



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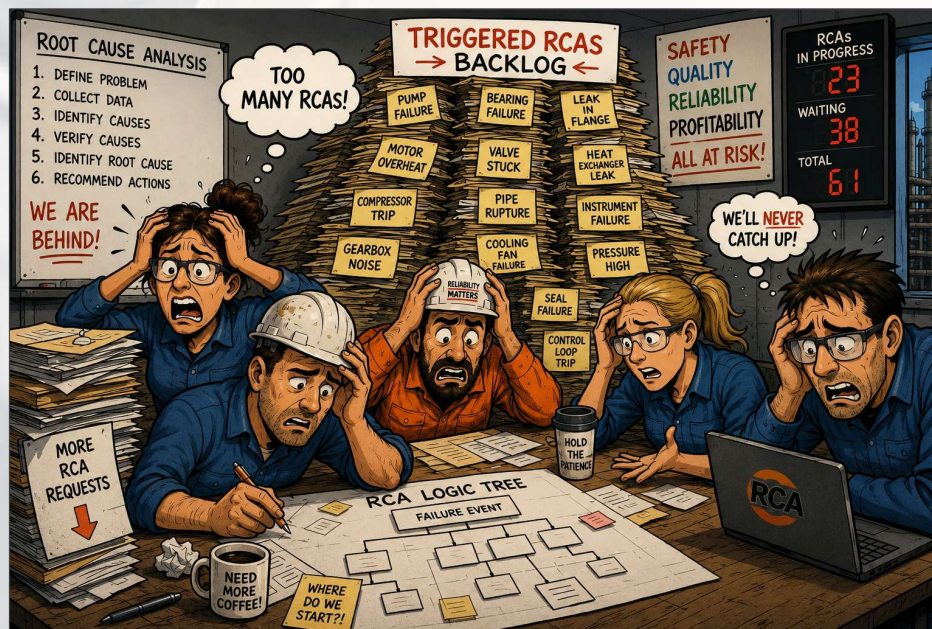
PROS AND CONS OF RCA TRIGGERS

PROS	CONS
 Ensures consistency in problem-solving on significant issues	 Can generate excessive workload
 Supports data-driven decisions	 Risk of "checkbox RCA"
 Strengthens compliance and audit readiness	 May be seen by the workforce as punitive
 Aligns resources with significant issues	 Risk of focusing only on triggered events and ignoring chronic events

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EXAMPLE TRIGGERS FOR A PAPER MILL

-  SAFETY RECORDABLE INJURIES
-  ENVIRONMENTAL EXCURSIONS
-  8 HOURS UNSCHEDULED DOWNTIME
on any major process area
(C1, C2, C8, Power, Recovery, Fiberline)
-  UNSCHEDULED MECHANICAL OR ELECTRICAL REPAIR
where costs exceed \$100,000
in maintenance expense
-  REJECTS GREATER THAN 250 TONS
for a single event
-  BOILER TRIP FOR RECOVERY BOILERS (1 OR 2)
or POWER BOILERS (1 OR 9)
-  MANAGER INVOKED



These triggers help identify significant events
that require deeper root cause analysis.

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SPORADIC EVENTS



16 Hours of downtime in a
major process area



Unplanned failure of a critical gearbox
that exceeds costs of \$125,000



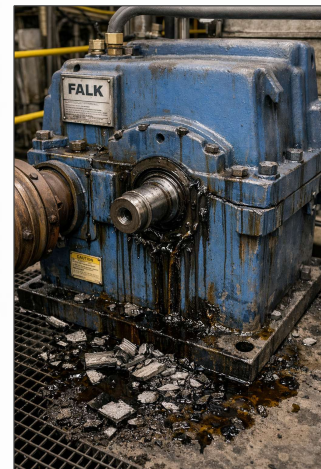
Plantwide power outage



Serious employee injury



Environmental Event



AI Image

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CHRONIC EVENT EXAMPLES



Pump 101 fails multiple times a year



Numerous soot blower failures in recovery boiler



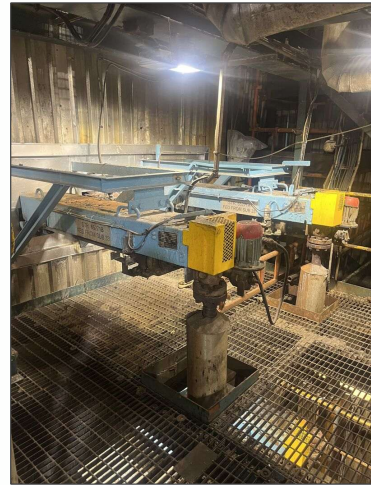
Heat exchanger tube leaks



Outage overruns



Parts repeatedly not available in the storeroom



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