Executive failure investigation summary

TRAINING EXAMPLE — Pump P-101

Fictional facility
Revision: 00
Training – fictional data
Training team
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1. Executive summary

Investigation status

Preliminary

Fictional example. Suction limitation hypothesis under investigation.

Documentation completeness

75% — completion indicator, not technical certainty.

Review points

Review: Hypotheses assessed
Review: Effectiveness verification

2. Event, asset and impact

Asset / ID

Centrifugal pump · P-101 · Pump room

Required function

Deliver 60 m³/h at design conditions.

Observed issue

Flow fell from 60 to 42 m³/h; noise and vibration followed a reservoir level decrease.

Impacts

Partial loss of capacity. No personal injury reported.

Containment

Equipment removed from service with authorization; safe condition recorded.

Initial risk

9 — Moderate

3. Hypotheses and conclusions

Methods used

5 Whys · Pareto analysis · Trend / time series

Hypotheses (recorded status)

M25 — Cavitation — Investigating: Plausible but unconfirmed.

Cause(s) and rationale

Not recorded / not confirmed.

Limitations and open items

Fictional data and evidence; do not use as an actual report.
Confirm suction conditions and exclude alternative hypotheses.

4. Actions and verification

Summary action plan

Record 1

Action: Check suction conditions and OEM curve

Owner: Engineering

Due: 2026-12-05

Status: Planned

Effectiveness: Flow and pressure within validated range.

Executive summary: consult the full report for evidence, charts, methodology, assumptions and details. Not an automatic expert opinion.