

FIVE GATES BEFORE AI INFLUENCES A MACHINE

When AI moves into physical machinery, authority must be explicit, safety controls independent, and cryptographic change planned.



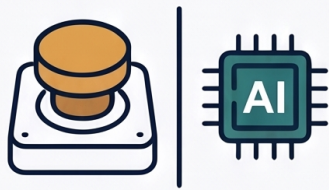
1 NAME IT

Assign business sponsor, technical owner and distinct agent identity.



2 BOUND IT

Allowlist tools and actions; read-only by default; separately gate consequential commands.



3 ISOLATE SAFETY

Keep safety-rated interlocks, physical stops and emergency controls outside model authority. (CSA robotics speech, 13 Oct 2026)



4 PROVE & STOP

Log workflow, agent identity, approval and outcome; rehearse halt, revocation and safe fallback.



5 PLAN CHANGE

Inventory actual cryptographic dependencies, equipment lifespan, vendor support and safe test environments.

COMPACT QUANTUM-SAFE TIMELINE

(CSA quantum-safe advisory, 14 Oct 2026)

14 Oct 2026

CSA advisory released.

End-2027

Migration plan for exposed organisations.

2031

Migration target for CII systems.

2035

Encouraged completion for other quantum-exposed organisations.

Clarification: Advisory milestones, not universal legal deadlines.

Disclaimer: Any imagined robot or quantum scenario depicted or referenced is strictly hypothetical, not a reported incident.

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Gemini Notebook